

BLASTN 2.2.13 [Nov-27-2005]

RID: 1143643332-20069-153143060667.BLASTQ1

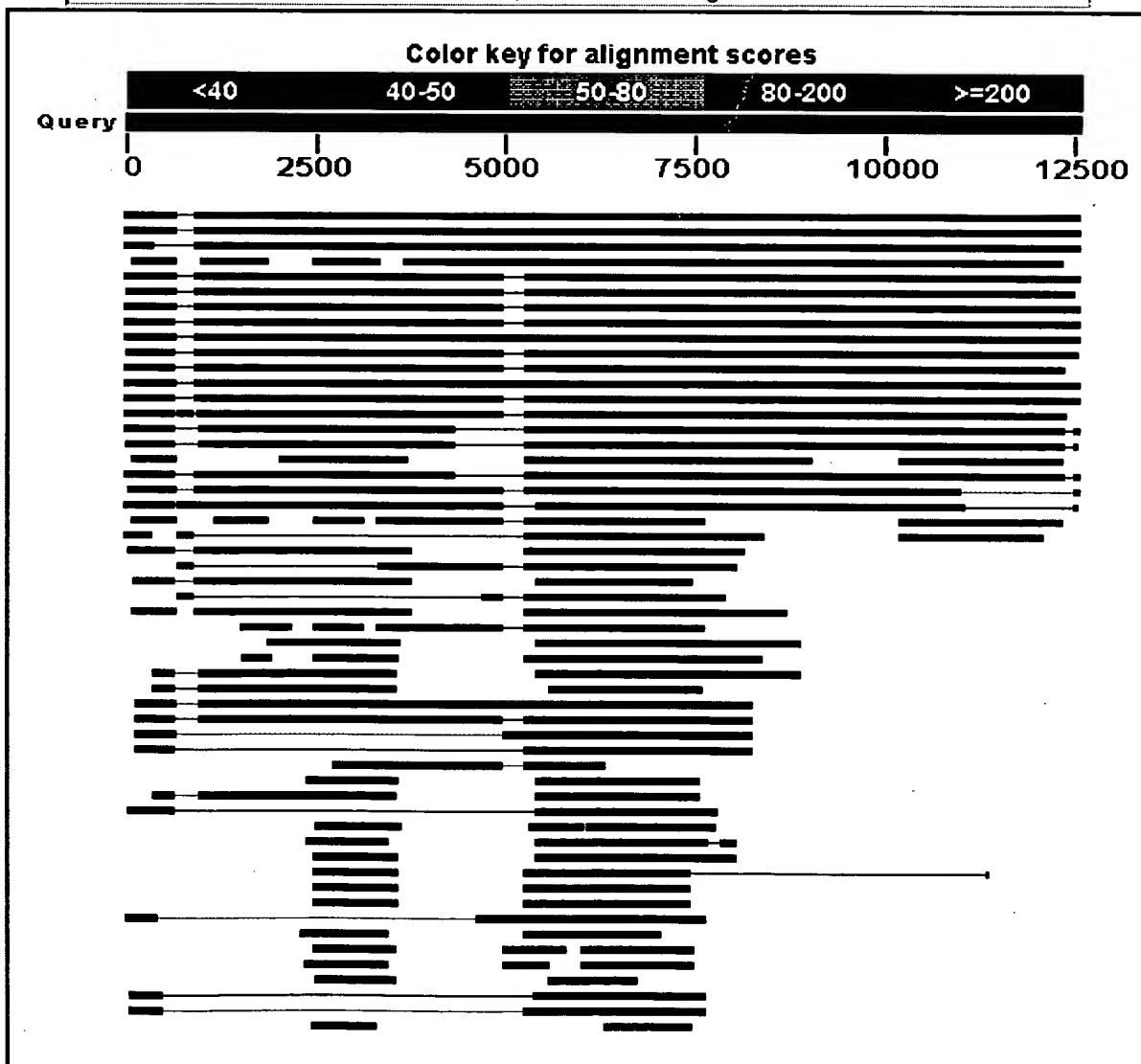
Database: All GenBank+EMBL+DDBJ+PDB sequences (but no EST, STS, GSS, environmental samples or phase 0, 1 or 2 HTGS sequences)
3,819,973 sequences; 16,928,533,343 total letters

If you have any problems or questions with the results of this search
please refer to the [BLAST FAQs](#)
[Taxonomy reports](#)

Query=
Length=12611

Distribution of 193 Blast Hits on the Query Sequence

Mouse-over to show define and scores, click to show alignments



Sequences producing significant alignments:	Score (Bits)	E Value
gi|323205|gb|M31182.1|BVDCG Bovine viral diarrhea virus 1-NADL,	2.140e+04	0.0
gi|7960753|emb|AJ133738.1|BVI133738 Bovine viral diarrhea virus	2.132e+04	0.0
gi|9049956|gb|AF268278.1|AF268278 Pestivirus type 1, complete ge	2.131e+04	0.0
gi|55724858|emb|AJ781045.1| Bovine viral diarrhea virus parti...	1.573e+04	0.0
gi|7960755|emb|AJ133739.1|BVI133739 Bovine viral diarrhea vir...	1.333e+04	0.0
gi|71727706|gb|DQ088995.1| Bovine viral diarrhea virus 1 stra...	1.182e+04	0.0
gi|289507|gb|M96751.1|BVDPOLYPRO Bovine viral diarrhea virus ...	8981	0.0
gi|3661565|gb|AF091605.1|AF091605 Bovine viral diarrhea virus st	8937	0.0
gi|28071149|dbj|AB078951.1| Bovine viral diarrhea virus-1 gen...	8911	0.0
gi|2789676|gb|AF041040.1|AF041040 Pestivirus type 1 polyprotein	8841	0.0
gi|2149468|gb|U86600.1|PTU86600 Pestivirus type 1 noncytopathic	6423	0.0
gi|28071151|dbj|AB078952.1| Bovine viral diarrhea virus-1 gen...	6344	0.0
gi|28071147|dbj|AB078950.1| Bovine viral diarrhea virus-1 gen...	6274	0.0
gi|2149466|gb|U86599.1|PTU86599 Pestivirus type 1 cytopathic gen	5489	0.0
gi|9836967|gb|AF220247.1|AF220247 Bovine viral diarrhea virus-1,	5214	0.0
gi|1518835|gb|U63479.1|BVU63479 Bovine viral diarrhea virus 1...	5214	0.0
gi|323222|gb|M96641.1|BVDP12510A Bovine viral diarrhea virus ...	4745	0.0
gi|37693100|emb|AJ585412.1| Bovine viral diarrhea virus VEDEV...	4641	0.0
gi|76781922|gb|AF526381.3| Bovine viral diarrhea virus 1 strain	4501	0.0
gi|323229|gb|M96687.1|BVDP Bovine viral diarrhea virus strai...	4307	0.0
gi|642600|gb|L35852.1|BVDP125E Bovine viral diarrhea virus (s...	3988	0.0
gi|39725568|dbj|AB111966.1| Bovine viral diarrhea virus 190cp...	3917	0.0
gi|323220|gb|M62430.1|BVDCNCP1 Bovine viral diarrhea virus NCP...	3651	0.0
gi|39725570|dbj|AB111967.1| Bovine viral diarrhea virus T-20 ...	3498	0.0
gi|3746673|gb|AF078534.1|AF078534 Pestivirus type 1 strain Si...	3485	0.0
gi|84180866|gb|DQ323915.1| Bovine viral diarrhea virus 1 stra...	3434	0.0
gi|323207|gb|M62431.1|BVDCP1 Bovine viral diarrhea virus CP1 ...	3216	0.0
gi|1628570|gb|U63512.1|BVU63512 Bovine viral diarrhea virus c...	3186	0.0
gi|642598|gb|L35851.1|BVDP125D Bovine viral diarrhea virus (s...	3097	0.0
gi|14579251|gb|AF321452.1|AF321452 Bovine viral diarrhea viru...	3083	0.0
gi|39725566|dbj|AB111965.1| Bovine viral diarrhea virus 190nc...	3029	0.0
gi|14579249|gb|AF321451.1|AF321451 Bovine viral diarrhea viru...	3011	0.0
gi|2073011|gb|U96334.1|PTU96334 Pestivirus type 1 strain R193...	2665	0.0
gi|77799881|dbj|AB111964.2| Bovine viral diarrhea virus 839cp...	2658	0.0
gi|289505|gb|L12455.1|BVDSINGER Bovine viral diarrhea virus RNA	2636	0.0
gi|77799879|dbj|AB111963.2| Bovine viral diarrhea virus 839nc...	2619	0.0
gi|77799877|dbj|AB111962.2| Bovine viral diarrhea virus 799cp...	2615	0.0
gi|77799875|dbj|AB111961.2| Bovine viral diarrhea virus 799nc...	2603	0.0
gi|3746675|gb|AF078535.1|AF078535 Pestivirus type 1 strain Ne...	2588	0.0
gi|22252901|gb|AY121916.1| Pestivirus type 1 isolate i-N-CTHB...	2508	0.0
gi|14113964|gb|AF049221.2|AF049221 Bovine viral diarrhea viru...	2396	0.0
gi|2997667|gb|AF052303.1| Pestivirus type 1 strain Bega polyprot	2377	0.0
gi|14112656|gb|AF049222.2|AF049222 Bovine viral diarrhea viru...	2377	0.0
gi|14209816|gb|AF255049.1|AF255049 Bovine viral diarrhea viru...	2375	0.0
gi|3746677|gb|AF078536.1|AF078536 Pestivirus type 1 strain Or...	2362	0.0
gi|2997669|gb|AF052304.1| Pestivirus type 1 strain Trangie polyp	2300	0.0
gi|487966|gb|U03912.1|BVU03912 Bovine viral diarrhea virus polyp	2152	0.0
gi|2465191|gb|U80885.1|PTU80885 Pestivirus type 1 polyprotein (L	2102	0.0
gi|14579247|gb|AF321450.1|AF321450 Bovine viral diarrhea viru...	2080	0.0
gi|3885462|gb|AF058699.1|AF058699 Bovine viral diarrhea virus...	2078	0.0
gi|28564452|emb|AJ544865.1|PTY544865 Bovine viral diarrhea vi...	2041	0.0
gi|28564454|emb|AJ544866.1|PTY544866 Bovine viral diarrhea vi...	1988	0.0
gi|28564450|emb|AJ544864.1|PTY544864 Bovine viral diarrhea vi...	1964	0.0
gi|454348|gb|U00891.1|PTU00891 Border disease virus polyprotein	1882	0.0
gi|3859507|gb|AF083348.1|AF083348 Pestivirus type 1 strain Si...	1733	0.0

gi|15282441|gb|AF144617.2|AF144617	Pestivirus giraffe-1 H138 com	1652	0.0
gi|34596505|gb|AY182137.1|AY182136S2	Pestivirus type 1 strain CP	1650	0.0
gi|11094035|gb|AF312856.1|	Pestivirus isolate Hay 87/2210 non...	1568	0.0
gi|11094033|gb|AF312855.1|	Pestivirus isolate 97-360 non-stru...	1530	0.0
gi|59624984|gb|AY911671.1|	Bovine pestivirus Ind S1456 polyprote	1393	0.0
gi|59624986|gb|AY911672.1|	Bovine pestivirus Ind S1226 polyprote	1382	0.0
gi|992589|emb|Z54185.1|BVDGP04	Bovine viral diarrhea virus (TGAC	1380	0.0
gi|1256840|gb|U53408.1|BVU53408	Bovine viral diarrhea virus NS3	1317	0.0
gi|1703497|gb|U70263.1|BDU70263	Border disease virus strain BD31	1291	0.0
gi|2073009|gb|U96333.1|PTU96333	Pestivirus type 1 strain R193...	1286	0.0
gi|59624982|gb|AY911670.1|	Bovine pestivirus Ind S1449 polyprote	1277	0.0
gi|606399|gb|L38697.1|BVDGP53SGP	Bovine viral diarrhea virus ...	1236	0.0
gi|484115|gb|L07496.1|BVDGP53ENV	Bovine viral diarrhoea virus...	1192	0.0
gi|15282443|gb|AF144618.2|AF144618	Pestivirus reindeer-1 V60-Kre	1190	0.0
gi|7637400|dbj|AB033752.1|	Pestivirus type 1 genomic RNA for ...	1153	0.0
gi|557924|gb|S71487.1|	gp48=glycoprotein [bovine viral diarrh...	1136	0.0
gi|84374633|gb|DQ328323.1|	Bovine viral diarrhea virus 1 stra...	1096	0.0
gi|6049233|gb|AF144611.1|AF144611	Bovine viral diarrhea virus...	1081	0.0
gi|5420140|emb|Y19123.1|BDV19123	Bovine viral diarrhea virus ...	1081	0.0
gi|30962158|emb|AJ558196.1|BVI558196	Bovine viral diarrhea vi...	1070	0.0
gi|67772267|gb|DQ067603.1|	Bovine viral diarrhea virus 1 isol...	1053	0.0
gi|67772263|gb|DQ067601.1|	Bovine viral diarrhea virus 1 isol...	1031	0.0
gi|67772265|gb|DQ067602.1|	Bovine viral diarrhea virus 1 isol...	1026	0.0
gi|2981424|gb|AF049226.1|AF049226	Pestivirus type 1 strain Gl...	933	0.0
gi|6049236|gb|AF144614.1|AF144614	Bovine viral diarrhea virus...	915	0.0
gi|2073007|gb|U96332.1|PTU96332	Pestivirus type 1 strain R193...	913	0.0
gi|2981420|gb|AF049224.1|AF049224	Pestivirus type 1 strain Tr...	881	0.0
gi|6049232|gb|AF144610.1|AF144610	Bovine viral diarrhea virus...	878	0.0
gi|11935042|gb|AF302463.1|AF302463	Pestivirus type 1 strain SD-1	857	0.0
gi|1698911|gb|U75982.1|PTU75982	Pestivirus type 1 E0/E1 gene, pa	835	0.0
gi|323223|gb|M96640.1|BVDP12580A	Bovine viral diarrhea virus n...	791	0.0
gi|10121787|gb|AF268180.1|AF268180	Bovine viral diarrhea viru...	739	0.0
gi|323227|gb|M96639.1|BVDP20A	Bovine viral diarrhea virus non...	739	0.0
gi|9711720|dbj|AB038017.1|	Bovine viral diarrhea virus strain...	734	0.0
gi|32746416|gb|AY323895.1|	Bovine viral diarrhea virus 1 isol...	730	0.0
gi|32746343|gb|AY323894.1|	Bovine viral diarrhea virus 1 isol...	730	0.0
gi|32746263|gb|AY323893.1|	Bovine viral diarrhea virus 1 isol...	730	0.0
gi|1009372|emb|Z54332.1|BVD125IN2	Bovine viral diarrhea virus...	728	0.0
gi|61817276|gb|AY845225.1|	Bovine viral diarrhea virus 1-NADL...	715	0.0
gi|32746156|gb|AY323892.1|	Bovine viral diarrhea virus 1 isol...	713	0.0
gi|3786386|gb|AF039181.1|AF039181	Pestivirus type 1 strain BVDVN	712	0.0
gi|5101889|emb|AJ241231.1|BVI241231	Bovine viral diarrhea vir...	695	0.0
gi|5101917|emb|AJ241245.1|BVI241245	Bovine viral diarrhea vir...	689	0.0
gi|5101895|emb|AJ241234.1|BVI241234	Bovine viral diarrhea vir...	689	0.0
gi|5101887|emb|AJ241230.1|BVI241230	Bovine viral diarrhea vir...	689	0.0

Alignments

> ☐ gi|323205|gb|M31182.1|BVDCG **BVD** Bovine viral diarrhea virus 1-NADL, complete gen
Length=12573

Score = 2.140e+04 bits (11589), Expect = 0.0
Identities = 11670/11684 (99%), Gaps = 6/11684 (0%)
Strand=Plus/Plus

Query	929	TCAGACACGAAAGAAGAGGGAGCAACAAAAAAGAAACACAGAAACCCGACAGACTAGAA	988
Sbjct	890	.....	949

Query	989	AGGGGGAAAATGAAAATAGTGCCCAAAGAATCTGAAAAAGACAGCAAAACTAAACCTCCG	1048
Sbjct	950	.....	1009
Query	1049	GATGCTACAATAGTGGTGGAGGAGTCAAATACCAGGTGAGGAAGAAGGGAAAAACCAAG	1108
Sbjct	1010	.....	1069
Query	1109	AGTAAAAACACTCAGGACGGCTTGTACCATAACAAAAACAAACCTCAGGAATCACGCAAG	1168
Sbjct	1070	.....	1129
Query	1169	AAACTGGAAAAAGCATTGTTGGCGTGGGCAATAATAGCTATAGTTTTGTTTCAAGTTACA	1228
Sbjct	1130	.....	1189
Query	1229	ATGGGAGAAAACATAACACAGTGGAACTTACAAGATAATGGGACGGAAGGGATACAACGG	1288
Sbjct	1190	.....	1249
Query	1289	GCAATGTTCCAAAGGGGTGTGAATAGAAGTTTACATGGAATCTGGCCAGAGAAAATCTGT	1348
Sbjct	1250	.....	1309
Query	1349	ACTGGCGTCCCTTCCCATCTAGCCACCGATATAGAACTAAAAACAATTCATGGTATGATG	1408
Sbjct	1310	.....	1369
Query	1409	GATGCAAGTGAGAAGACCAACTACACGTGTTGCAGACTTCAACGCCATGAGTGGAAACAAG	1468
Sbjct	1370	.....	1429
Query	1469	CATGGTTGGTGCAACTGGTACAATATTGAACCCCTGGATTCTAGTCATGAATAGAACCCAA	1528
Sbjct	1430	.....	1489
Query	1529	GCCAATCTCACTGAGGGACAACCACCAAGGGAGTGCAGTCACTTGTAGGTATGATAGG	1588
Sbjct	1490	.....	1549
Query	1589	GCTAGTGACTTAAACGTGGTAACACAAGCTAGAGATAGCCCCACACCCTTAACAGGTTC	1648
Sbjct	1550	.....	1609
Query	1649	AAGAAAGGAAAGAACTTCTCCTTTGCAGGCATATTGATGCGGGGCCCTGCAACTTTGAA	1708
Sbjct	1610	.....	1669
Query	1709	ATAGCTGCAAGTGATGTATTATTCAAAGAACATGAACGCATTAGTATGTTCCAGGATACT	1768
Sbjct	1670	.....C	1729
Query	1769	ACTCTTTACCTTGTTGACGGGTTGACCAACTCCTTAGAAGGTGCCAGACAAGGAACCGCT	1828
Sbjct	1730	.....	1789
Query	1829	AAACTGACAACCTGGTTAGGCAAGCAGCTCGGGATACTAGGAAAAAGTTGGAAAACAAG	1888
Sbjct	1790	.....	1849
Query	1889	AGTAAGACGTGGTTTGGAGCATACGCTGCTTCCCTTACTGTGATGTCGATCGCAAAATT	1948
Sbjct	1850	.....	1909
Query	1949	GGCTACATATGGTATACAAAAATTGCACCCCTGCCTGCTTACCCAAGAACACAAAAATT	2008
Sbjct	1910	.....	1969
Query	2009	GTCGGCCCTGGGAAATTTGACACCAATGCAGAGGACGGCA-GATATTACATGAGATGGGG	2067
Sbjct	1970	.....G.....A.....	2029
Query	2068	GGTCACTTGTGCGAGGTACTACTACTTTCTTTAGTGGTGCTGTCCGACTTCGCACCGGAA	2127
Sbjct	2030	.....	2089
Query	2128	ACAGCTAGTGTAATGTACCTAATCCTACATTTTTCCATCCCACAAAGTCACGTTGATGTA	2187
Sbjct	2090	.....	2149
Query	2188	ATGGATTGTGATAAGACCCAGTTGAACCTCACAGTGGAGCTGACAACAGCTGAAGTAATA	2247
Sbjct	2150	.....	2209

Query	2248	CCAGGGTCGGTCTGGAATCTAGGCAAATATGTATGTATAAGACCAAATTGGTGGCCTTAT	2307
Sbjct	2210	.....	2269
Query	2308	GAGACAACCTGTAGTGTGGCATTTGAAGAGGTGAGCCAGGTGGTGAAGTTAGTGTGAGG	2367
Sbjct	2270	.....	2329
Query	2368	GCACCTCAGAGATTTAACACGCATTTGGAACGCTGCAACAACCTACTGCTTTTTTAGTATGC	2427
Sbjct	2330	.....	2389
Query	2428	CTTGTTAAGATAGTCAGGGGCCAGATGGTACAGGGCATTCCTGTGGCTACTATTGATAACA	2487
Sbjct	2390	.....	2449
Query	2488	GGGGTACAAGGGCACTTGGATTGCAAACCTGAATTCTCGTATGCCATAGCAAAGGACGAA	2547
Sbjct	2450	.....	2509
Query	2548	AGAATTGGTCAACTGGGGGCTGAAGGCCTTACCACCACCTTGAAGGAATACTCACCTGGA	2607
Sbjct	2510	.....	2569
Query	2608	ATGAAGCTGGAAGACACAATGGTCATTGCTTGGTGCGAAGATGGGAAGTTAATGTACCTC	2667
Sbjct	2570	.....	2629
Query	2668	CAAAGATGCACGAGAGAAACCAGATATCTCGCAATCTTGCATACAAGAGCCTTGCCGACC	2727
Sbjct	2630	.....	2689
Query	2728	AGTGTGGTATTCAAAAACTCTTTGATGGGCGAAAGCAAGAGGATGTAGTCGAAATGAAC	2787
Sbjct	2690	.....	2749
Query	2788	GACAACTTTGAATTTGGACTCTGCCCATGTGATGCCAAACCCATAGTAAGAGGGAAGTTC	2847
Sbjct	2750	.....	2809
Query	2848	AATACAACGCTGCTGAACGGACCGGCCTTCCAGATGGTATGCCCCATAGGATGGACAGGG	2907
Sbjct	2810	.....	2869
Query	2908	ACTGTAAGCTGTACGTCAATATGGACACCTTAGCCACAACCTGTGGTACGGACATAT	2967
Sbjct	2870	.....	2929
Query	2968	AGAAGGTCTAAACCATTCCTCATAGGCAAGGCTGTATCACCCAAAAGAATCTGGGGGAG	3027
Sbjct	2930	.....	2989
Query	3028	GATCTCCATAACTGCATCCTTGGAGGAAATTGGACTTGTGTGCCTGGAGACCAACTACTA	3087
Sbjct	2990	.....	3049
Query	3088	TACAAAGGGGGCTCTATTGAATCTTGCAAGTGGTGTGGCTATCAATTTAAAGAGAGTGAG	3147
Sbjct	3050	.....	3109
Query	3148	GGACTACCACACTACCCCATTTGGCAAGTGTAATTTGGAGAACGAGACTGGTTACAGGCTA	3207
Sbjct	3110	.....	3169
Query	3208	GTAGACAGTACCTCTTGCAATAGAGAAGGTGTGGCCATAGTACCACAAGGGACATTAAAG	3267
Sbjct	3170	.....	3229
Query	3268	TGCAAGATAGGAAAAACAACGTACAGGTCATAGCTATGGATACCAAACCTCGGACCTATG	3327
Sbjct	3230	.....	3289
Query	3328	CCTTGCAGACCATATGAAATCATATCAAGTGAGGGGCCTGTAGAAAAGACAGCGTGTACT	3387
Sbjct	3290	.....	3349
Query	3388	TTCAACTACACTAAGACATTAATAAATAAGTATTTTGAGCCCAGAGACAGCTACTTTCAG	3447
Sbjct	3350	.....	3409
Query	3448	CAATACATGCTAAAAGGAGAGTATCAATACTGGTTTGACCTGGAGGTGACTGACCATCAC	3507
Sbjct	3410	.....	3469

Query	3508	CGGGATTACTTCGCTGAGTCCATATTAGTGGTGGTAGTAGCCCTCTTGGGTGGCAGATAT	3567
Sbjct	3470	.....	3529
Query	3568	GTACTTTGGTTACTGGTTACATACATGGTCTTATCAGAACAGAAGGCCCTTAGGGATTTCAG	3627
Sbjct	3530	.....	3589
Query	3628	TATGGATCAGGGGAAGTGGTGATGATGGGCAACTTGCTAACCATAACAATATTGAAGTG	3687
Sbjct	3590	.....	3649
Query	3688	GTGACATACTTCTTGCTGCTGTACCTACTGCTGAGGGAGGAGAGCGTAAAGAAGTGGGTC	3747
Sbjct	3650	.....	3709
Query	3748	TTACTCTTATACCACATCTTAGTGGTACACCCAATCAAATCTGTAATTGTGATCCTACTG	3807
Sbjct	3710	.....	3769
Query	3808	ATGATTGGGGATGTGGTAAAGGCCGATTTCAGGGGGCCAAGAGTACTTGGGGAAAATAGAC	3867
Sbjct	3770	.....	3829
Query	3868	CTCTGTTTTTACAACAGTAGTACTAATCGTCATAGGTTTAATCATAGCCAGGCGTGACCCA	3927
Sbjct	3830	.....T	3889
Query	3928	ACTATAGTGCCACTGGTAACAATAATGGCAGCACTGAGGGTCAC'TGAAC'TGACCCACCAG	3987
Sbjct	3890	.....	3949
Query	3988	CCTGGAGTTGACATCGCTGTGGCGGTCATGACTATAACCCTACTGATGGTTAGCTATGTG	4047
Sbjct	3950	.....	4009
Query	4048	ACAGATTATTTTAGATATAAAAAATGGTTACAGTGCATTCTCAGCCTGG-ATCTGGGGTG	4106
Sbjct	4010	.....T C	4069
Query	4107	TTCTTGATAAGAAGCCTAATATACCTAGGTAGAATCGAGATGCCAGAGGTAAC'TATCCCA	4166
Sbjct	4070	.....	4129
Query	4167	AACTGGAGACCACTAACTTTAATACTATTATATTTGATCTCAACAACAATTGTAACGAGG	4226
Sbjct	4130	.....	4189
Query	4227	TGGAAGGTTGACGTGGCTGGCCTATTGTTGCAATGTGTGCCTATCTTATTGCTGGTCACA	4286
Sbjct	4190	.....	4249
Query	4287	ACCTTGTTGGGCCGACTTCTTAACCCTAATACTGATCCTGCCTACCTATGAATTGGTTAAA	4346
Sbjct	4250	.....	4309
Query	4347	TTATACTATCTGAAAAC'TGTTAGGACTGATATAGAAAAGAAGTTGGCTAGGGGGGATAGAC	4406
Sbjct	4310	.....C	4369
Query	4407	TATACAAGAGTTGACTCCATCTACGACGTTGATGAGAGTGGAGAGGGCGTATATCTTTTT	4466
Sbjct	4370	.....	4429
Query	4467	CCATCAAGGCAGAAAGCACAGGGGAATTTTCTATACTCTTGCCCCCTTATCAAAGCAACA	4526
Sbjct	4430	.....	4489
Query	4527	CTGATAAGTTGCGTCAGCAGTAAATGGCAGCTAATATACATGAGTTACTTAACTTTGGAC	4586
Sbjct	4490	.....	4549
Query	4587	TTTATGTACTACATGCACAGGAAAGTTATAGAAGAGATCTCAGGAGGTACCAACATAATA	4646
Sbjct	4550	.....	4609
Query	4647	TCCAGGTTAGTGGCAGCACTCATAGAGCTGAACTGGTCCATGGAAGAAGAGGAGAGCAAA	4706
Sbjct	4610	.....	4669
Query	4707	GGCTTAAAGAAGTTTATCTATTGTCTGGAAGGTTGAGAAACCTAATAATAAAACATAAG	4766
Sbjct	4670	.....	4729

Query	4767	GTAAGGAATGAGACCGTGGCTTCTTGGTACGGGGAGGAGGAAGTCTACGGTATGCCAAAG	4826
Sbjct	4730	.....	4789
Query	4827	ATCATGACTATAATCAAGGCCAGTACACTGAGTAAGAGCAGGCACTGCATAATATGCACT	4886
Sbjct	4790	.....	4849
Query	4887	GTATGTGAGGGCCGAGAGTGGAAAGGTGGCACCTGCCCAAATGTGGACGCCATGGGAAG	4946
Sbjct	4850	.....	4909
Query	4947	CCGATAACGTGTGGGATGTCGCTAGCAGATTTCTGAAGAAAGACACTATAAAAGAATCTTT	5006
Sbjct	4910	.....T.....	4969
Query	5007	ATAAGGGAAGGCAACTTTGAGGGTATGTGCAGCCGATGCCAGGGAAAGCATAGGAGGTTT	5066
Sbjct	4970	.....	5029
Query	5067	GAAATGGACCGGGAACCTAAGAGTGCCAGATACTGTGCTGAGTGTAAATAGGCTGCATCCT	5126
Sbjct	5030	.....	5089
Query	5127	GCTGAGGAAGGTGACTTTTGGGCAGAGTCGAGCATGTTGGGCCTCAAATCACCTACTTT	5186
Sbjct	5090	.....	5149
Query	5187	GCGCTGATGGATGGAAAGGTGTATGATATCACAGAGTGGGCTGGATGCCAGCGTGTGGGA	5246
Sbjct	5150	.....	5209
Query	5247	ATCTCCCCAGATACCCACAGAGTCCCTTGTACATCTCATTTGGTTTCACGGATGCCTTTC	5306
Sbjct	5210	.....	5269
Query	5307	AGGCAGGAATACAATGGCTTTGTACAATATACCGCTAGGGGGCAACTATTTCTGAGAAAC	5366
Sbjct	5270	.....	5329
Query	5367	TTGCCCGTACTGGCAACTAAAGTAAAAATGCTCATGGTAGGCAACCTTGGAGAAGAAATT	5426
Sbjct	5330	.....	5389
Query	5427	GGTAATCTGGAACATCTTGGGTGGATCCTAAGGGGGCCTGCCGTGTGTAAGAAGATCACA	5486
Sbjct	5390	.....	5449
Query	5487	GAGCACGAAAAATGCCACATTAATATACTGGATAAACTAACCGCATTTTTTCGGGATCATG	5546
Sbjct	5450	.....	5509
Query	5547	CCAAGGGGGACTACACCCAGAGCCCCGGTGAGGTTCCCTACGAGCTTACTAAAAGTGAGG	5606
Sbjct	5510	.....	5569
Query	5607	AGGGGTCTGGAGACTGGCTGGGCTTACACACACCAAGGCGGGATAAGTTCAGTCGACCAT	5666
Sbjct	5570	.....C.....	5629
Query	5667	GTAACCGCCGAAAAGATCTACTGGTCTGTGACAGCATGGGACGAACTAGAGTGGTTTGC	5726
Sbjct	5630	.....	5689
Query	5727	CAAAGCAACAACAGGTTGACCGATGAGACAGAGTATGGCGTCAAGACTGACTCAGGGTGC	5786
Sbjct	5690	.....	5749
Query	5787	CCAGACGGTGCCAGATGTTATGTGTTAAATCCAGAGGCCGTTAACATATCAGGATCCAAA	5846
Sbjct	5750	.....	5809
Query	5847	GGGGCAGTCGTTACCTCCAAAAGACAGGTGGAGAATTACAGTGTGTCACCGCATCAGGC	5906
Sbjct	5810	.....	5869
Query	5907	ACACCGGCTTTCTTCGACCTAAAAAAGTGAAGGATGGTCAGGCTTGCCTATATTTGAA	5966
Sbjct	5870	.....	5929
Query	5967	GCCTCCAGCGGGAGGGTGGTTGGCAGAGTCAAAGTAGGGAAGAATGAAGAGTCTAAACCT	6026
Sbjct	5930	.....	5989

Query	6027	ACAAAAATAATGAGTGGAAATCCAGACCGTCTCAAAAAACACAGCAGACCTGACCGAGATG	6086
Sbjct	5990	.....G.....	6049
Query	6087	GTCAAGAAGATAACCAGCATGAACAGGGGAGACTTCAAGCAGATTACTTTGGCAACAGGG	6146
Sbjct	6050	.....	6109
Query	6147	-CAGGCCAAAACCACAGAACTCCCAAAAGCAGTTATAGAGGAGATAGGAAGACACAAGAGA	6205
Sbjct	6110	G.....	6169
Query	6206	GTATTAGTTCTTATACCATTAAGGGCAGCGGCAGAGTCAGTCTACCAGTATATGAGATTG	6265
Sbjct	6170	.....	6229
Query	6266	AAACACCCAAGCATCTCTTTTAACCTAAGGATAGGGGACATGAAAGAGGGGGACATGGCA	6325
Sbjct	6230	.....	6289
Query	6326	ACCGGGATAACCTATGCATCATACGGGTACTTCTGCCAAATGCCTCAACCAAAGCTCAGA	6385
Sbjct	6290	.....	6349
Query	6386	GCTGCTATGGTAGAATACTCATACATATTCTTAGATGAATACCATTGTGCCACTCCTGAA	6445
Sbjct	6350	.....	6409
Query	6446	CAACTGGCAATTATCGGGAAGATCCACAGATTTTCAGAGAGTATAAGGGTTGTGCGCATG	6505
Sbjct	6410	.....	6469
Query	6506	ACTGCCACGCCAGCAGGGTCGGTGACCACAACAGGTCAAAAGCACCCAATAGAGGAATTC	6565
Sbjct	6470	.....	6529
Query	6566	ATAGCCCCCGAGGTAATGAAAGGGGAGGATCTTGGTAGTCAGTTCCTTGATATAGCAGGG	6625
Sbjct	6530	.....	6589
Query	6626	TTAAAAATACCAGTGGATGAGATGAAAGGCAATATGTTGGTTTTTGTACCAACGAGAAAC	6685
Sbjct	6590	.....	6649
Query	6686	ATGGCAGTAGAGGTAGCAAAGAAGCTAAAAGCTAAGGGCTATAACTCTGGATACTATTAC	6745
Sbjct	6650	.....	6709
Query	6746	AGTGGAGAGGATCCAGCCAATCTGAGAGTTGTGACATCACAATCCCCCTATGTAATCGTG	6805
Sbjct	6710	.....	6769
Query	6806	GCTACAAATGCTATTGAATCAGGAGTGACACTACCAGATTTGGACACGGTTATAGACACG	6865
Sbjct	6770	.....	6829
Query	6866	GGGTTGAAATGTGAAAAGAGGGTGAGGGTATCATCAAAGATACCCTTCATCGTAACAGGC	6925
Sbjct	6830	.....	6889
Query	6926	CTTAAGAGGATGGCCGTGACTGTGGGTGAGCAGGCGCAGCGTAGGGGCAGAGTAGGTAGA	6985
Sbjct	6890	.....	6949
Query	6986	GTGAAACCCGGGAGGTATTATAGGAGCCAGGAAACAGCAACAGGGTCAAAGGACTACCAC	7045
Sbjct	6950	.....	7009
Query	7046	TATGACCTCTTGACGGCACAAAGATACGGGATTGAGGATGGAATCAACGTGACGAAATCC	7105
Sbjct	7010	.....	7069
Query	7106	TTTAGGGAGATGAATTACGATTGGAGCCTATACGAGGAGGACAGCCTACTAATAACCCAG	7165
Sbjct	7070	.....	7129
Query	7166	CTGGAAATACTAAATAATCTACTCATCTCAGAAGACTTGCCAGCCGCTGTTAAGAACATA	7225
Sbjct	7130	.....	7189
Query	7226	ATGGCCAGGACTGATCAGCCAGAGCCAATCCAACCTTGCATACAACAGCTATGAAGTCCAG	7285
Sbjct	7190	.....	7249

Query	7286	GTCCCGGTCTATTCCCAAAAATAAGGAATGGAGAAGTCACAGACACCTACGAAAATTAC	7345
Sbjct	7250	.....	7309
Query	7346	TCGTTTCTAAATGCCAGAAAGTTAGGGGAGGATGTGCCCGTGTATATCTACGCTACTGAA	7405
Sbjct	7310	.....	7369
Query	7406	GATGAGGATCTGGCAGTTGACCTCTTAGGGCTAGACTGGCCTGATCCTGGGAACCAGCAG	7465
Sbjct	7370	.....	7429
Query	7466	GTAGTGGAGACTGGTAAAGCACTGAAGCAAGTGACCGGGTTGTCCTCGGCTGAAAATGCC	7525
Sbjct	7430	.....	7489
Query	7526	CTACTAGTGGCTTTATTTGGGTATGTGGGTACCAGGCTCTCTCAAAGAGGCATGTCCCA	7585
Sbjct	7490	.....	7549
Query	7586	ATGATAACAGACATATATACCATCGAGGACCAGAGACTAGAAGACACCACCCACCTCCAG	7645
Sbjct	7550	.....	7609
Query	7646	TATGCACCCAACGCCATAAAAACCGATGGGACAGAGACTGAACTGAAAGAACTGGCGTCG	7705
Sbjct	7610	.....	7669
Query	7706	GGTGACGTGGAAAAATCATGGGAGCCATTTAGATTATGCAGCTGGGGGACTGGAGTTT	7765
Sbjct	7670	.....	7729
Query	7766	GTTAAATCCCAAGCAGAAAAGATAAAAACAGCTCCTTTGTTTAAAGAAAACGCAGAAGCC	7825
Sbjct	7730	.....	7789
Query	7826	GCAAAAGGGTATGTCCAAAATTCATTGACTCATTAAATTGAAAATAAAGAAGAAATAATC	7885
Sbjct	7790	.....	7849
Query	7886	AGATATGGTTTGTGGGGAACACACACAGCACTATACAAAAGCATAGCTGCAAGACTGGGG	7945
Sbjct	7850	.....	7909
Query	7946	CATGAAACAGCGTTTGCCACACTAGTGTAAAGTGGCTAGCTTTTGGAGGGGAATCAGTG	8005
Sbjct	7910	.....	7969
Query	8006	TCAGACCACGTCAAGCAGGCGGCAGTTGATTTAGTGGTCTATTATGTGATGAATAAGCCT	8065
Sbjct	7970	.....	8029
Query	8066	TCCTTCCCAGGTGACTCCGAGACACAGCAAGAAGGGAGGCGATTTCGTGCAAGCCTGTTC	8125
Sbjct	8030	.....	8089
Query	8126	ATCTCCGCACTGGCAACCTACACATACAAAACCTTGAATTACCACAATCTCTCTAAAGTG	8185
Sbjct	8090	.....	8149
Query	8186	GTGGAAC-AGCCCTGGCTTACCTCCCTATGCTACCAGCGCATTAAAAATGTTACCCCA	8244
Sbjct	8150	.....C.....	8209
Query	8245	ACGCGGCTGGAGAGCGTGGTGATACTGAGCACCACGATATATAAAACATACCTCTCTATA	8304
Sbjct	8210	.....	8269
Query	8305	AGGAAGGGGAAGAGTGATGGATTGCTGGGTACGGGGATAAGTGCAGCCATGGAAATCCTG	8364
Sbjct	8270	.....	8329
Query	8365	TCACAAAACCCAGTATCGGTAGGTATATCTGTGATGTTGGGGGTAGGGGCAATCGCTGCG	8424
Sbjct	8330	.....	8389
Query	8425	CACAACGCTATTGAGTCCAGTGAACAGAAAAGGACCCTACTTATGAAGGTGTTTGTAAG	8484
Sbjct	8390	.....	8449
Query	8485	AACTTCTTGATCAGGCTGCAACAGATGAGCTGGTAAAAGAAAACCCAGAAAAAATTATA	8544
Sbjct	8450	.....	8509

Query	8545	ATGGCCTTATTTGAAGCAGTCCAGACAATTGGTAACCCCCTGAGACTAATATACCACCTG	8604
Sbjct	8510	.....	8569
Query	8605	TATGGGGTTTACTACAAAGGTTGGGAGGCCAAGGAAGTATCTGAGAGGACAGCAGGCAGA	8664
Sbjct	8570	.....	8629
Query	8665	AACTTATTCACATTGATAATGTTTGAAGCCTTCGAGTTATTAGGGATGGACTCACAAGGG	8724
Sbjct	8630	.....	8689
Query	8725	AAAATAAGGAACCTGTCCGGAATTACATTTTGGATTTGATATACGGCCTACACAAGCAA	8784
Sbjct	8690	.....	8749
Query	8785	ATCAACAGAGGGCTGAAGAAAATGGTACTGGGGTGGGCCCTGCACCCTTTAGTTGTGAC	8844
Sbjct	8750	.....	8809
Query	8845	TGGACCCCTAGTGACGAGAGGATCAGATTGCCAACAGACAAGTATTTGAGGGTAGAAACC	8904
Sbjct	8810	.....	8869
Query	8905	AGGTGCCCATGTGGCTATGAGATGAAAGCTTTCAAAAATGTAGGTGGCAAAGTTACCAAA	8964
Sbjct	8870	.....	8929
Query	8965	GTGGAGGAGAGCGGGCCTTTCCTATGTAGAAACAGACCTGGTAGGGGACCAAGTCAACTAC	9024
Sbjct	8930	.....	8989
Query	9025	AGAGTCACCAAGTATTACGATGACAACCTCAGAGAGATAAAACCAGTAGCAAAGTTGGAA	9084
Sbjct	8990	.....	9049
Query	9085	GGACAGGTAGAGCACTACTACAAAGGGGTACAGCAAAAATTGACTACAGTAAAGGAAAA	9144
Sbjct	9050	.....	9109
Query	9145	ATGCTCTTGGCCACTGACAAGTGGGAGGTGGAACATGGTGTGATAACCAGGTAGCTAAG	9204
Sbjct	9110	.....	9169
Query	9205	AGATATACTGGGGTCGGGTTCATGGTGCATACTTAGGTGACGAGCCCAATCACCGTGCT	9264
Sbjct	9170	.....	9229
Query	9265	CTAGTGGAGAGGGACTGTGCAACTATAACCAAAAACACAGTACAGTTTCTAAAAATGAAG	9324
Sbjct	9230	.....	9289
Query	9325	AAGGGGTGTGCGTTCACCTATGACCTGACCATCTCCAATCTGACCAGGCTCATCGAACTA	9384
Sbjct	9290	.....	9349
Query	9385	GTACACAGGAACAATCTTGAAGAGAAGGAAATACCCACCGCTACGGTCACCACATGGCTA	9444
Sbjct	9350	.....	9409
Query	9445	GCTTACACCTTCGTGAATGAAGACGTAGGGACTATAAAACCAGTACTAGGAGAGAGAGTA	9504
Sbjct	9410	.....	9469
Query	9505	ATCCCCGACCCTGTAGTTGATATCAATTTACAACCAGAGGTGCAAGTGGACACGTCAGAG	9564
Sbjct	9470	.....	9529
Query	9565	GTTGGGATCACAATAATTGGAAGGGAAACCCTGATGACAACGGGAGTGACACCTGTCTTG	9624
Sbjct	9530	.....	9589
Query	9625	GAAAAAGTAGAGCCTGACGCCAGCGACAACCAAAACTCGGTGAAGATCGGGTTGGATGAG	9684
Sbjct	9590	.....	9649
Query	9685	GGTAATTACCCAGGGCCTGGAATACAGACACATACACTAACAGAAGAAATACACAACAGG	9744
Sbjct	9650	.....	9709
Query	9745	GATGCGAGGCCCTTCATCATGATCCTGGGCTCAAGGAATCCATATCAAATAGGGCAAAG	9804
Sbjct	9710	.....	9769

Query	9805	ACTGCTAGAAATATAAATCTGTACACAGGAAATGACCCCAGGGAAATACGAGACTTGATG	9864
Sbjct	9770	.....	9829
Query	9865	GCTGCAGGGCGCATGTTAGTAGTAGCACTGAGGGATGTCGACCCTGAGCTGTCTGAAATG	9924
Sbjct	9830	.....	9889
Query	9925	GTCGATTTCAAGGGGACTTTTTTAGATAGGGAGGCCCTGGAGGCTCTAAGTCTCGGGCAA	9984
Sbjct	9890	.....	9949
Query	9985	CCTAAACCGAAGCAGGTTACCAAGGAAGCTGTTAGGAATTTGATAGAACAGAAAAAGAT	10044
Sbjct	9950	.....	10009
Query	10045	GTGGAGATCCCTAACTGGTTTGCATCAGATGACCCAGTATTTCTGGAAGTGGCCTTAAAA	10104
Sbjct	10010	.....	10069
Query	10105	AATGATAAGTACTACTTAGTAGGAGATGTTGGAGAGCTAAAAGATCAAGCTAAAGCACTT	10164
Sbjct	10070	.....	10129
Query	10165	GGGGCCACGGATCAGACAAGAATTATAAAGGAGGTAGGCTCAAGGACGTATGCCATGAAG	10224
Sbjct	10130	.....	10189
Query	10225	CTATCTAGCTGGTTCC-CAAGGCATCAAACAAACAGATGAGTTTAACTCCACTGTTTGAG	10283
Sbjct	10190	.....T.....	10249
Query	10284	GAATTGTTGCTACGGTGCCACCTGCAACTAAGAGCAATAAGGGGCACATGGCATCAGCT	10343
Sbjct	10250	.....	10309
Query	10344	TACCAATTGGCACAGGGTAACTGGGAGCCCCCTCGGTTCGCGGGTGACCTAGGTACAATA	10403
Sbjct	10310	.....	10369
Query	10404	CCAGCCAGAAGGGTGAAGATACACCCATATGAAGCTTACCTGAAGTTGAAAGATTTCATa	10463
Sbjct	10370	.....	10429
Query	10464	gaagaagaagagaagaaACCTAGGGTTAAGGATACAGTAATAAGAGAGCACAACAAATGG	10523
Sbjct	10430	.....	10489
Query	10524	ATACTTaaaaaaaTAAGGTTTCAAGGAAACCTCAACACCAAGAAAATGCTCAACCCAGGG	10583
Sbjct	10490	.....	10549
Query	10584	AAACTATCTGAACAGTTGGACAGGGAGGGGCGCAAGAGGAACATCTACAACCACCAGATT	10643
Sbjct	10550	.....	10609
Query	10644	GGTACTATAATGTCAAGTGCAGGCATAAGGCTGGAGAAATTGCCAATAGTGAGGGCCCAA	10703
Sbjct	10610	.....	10669
Query	10704	ACCGACACCAAACCTTTCATGAGGCAATAAGAGATAAGATAGACAAGAGTGAAAACCGG	10763
Sbjct	10670	.....	10729
Query	10764	CAAAATCCAGAATTGCACAACAAATTGTTGGAGATTTTCCACACGATAGCCCAACCCACC	10823
Sbjct	10730	.....	10789
Query	10824	CTGAAACACACCTACGGTGAGGTGACGTGGGAGCAACTTGAGGCGGGGGTAAATAGAAAG	10883
Sbjct	10790	.....	10849
Query	10884	GGGGCAGCAGGCTTCCTGGAGAAGAAGAACATCGGAGAAGTATTGGATTGAGAAAAGCAC	10943
Sbjct	10850	.....	10909
Query	10944	CTGGTAGAACAATTGGTCAGGGATCTGAAGGCCGGGAGAAAGATAAAATATTATGAAACT	11003
Sbjct	10910	.....	10969
Query	11004	GCAATACCAAAAAATGAGAAGAGAGATGTCAGTGATGACTGGCAGGCAGGGGACCTGGTG	11063
Sbjct	10970	.....	11029

Query	11064	GTTGAGAAGAGGCCAAGAGTTATCCAATACCCTGAAGCCAAGACAAGGCTAGCCATCACT	11123
Sbjct	11030	.....	11089
Query	11124	AAGGTCATGTATAACTGGGTGAAACAGCAGCCCGTTGTGATTCCAGGATATGAAGGAAAG	11183
Sbjct	11090	.....	11149
Query	11184	ACCCCTTGTTCAACATCTTTGATAAAGTGAGAAAGGAATGGGACTCGTTCAATGAGCCA	11243
Sbjct	11150	.....	11209
Query	11244	GTGGCCGTAAGTTTTGACACCAAAGCCTGGGACACTCAAGTGAAGTACTAGTAAGGATCTGCAA	11303
Sbjct	11210	.....	11269
Query	11304	CTTATTGGAGAAATCCAGAAATATTACTATAAGAAGGAGTGGCACAAGTTCATTGACACC	11363
Sbjct	11270	.....	11329
Query	11364	ATCACCGACCACATGACAGAAGTACCAGTTATAACAGCAGATGGTGAAGTATATATAAGA	11423
Sbjct	11330	.....	11389
Query	11424	AATGGGCAGAGAGGGAGCGGCCAGCCAGACACAAGTGCTGGCAACAGCATGTTAAATGTC	11483
Sbjct	11390	.....	11449
Query	11484	CTGACAATGATGTACGGCTTCTGCGAAAGCACAGGGGTACCGTACAAGAGTTTCAACAGG	11543
Sbjct	11450	.....	11509
Query	11544	GTGGCAAGGATCCACGTCTGTGGGGATGATGGCTTCTTAATAACTGAAAAAGGGTTAGGG	11603
Sbjct	11510	.....	11569
Query	11604	CTGAAATTTGCTAACAAAGGGATGCAGATTCTTCATGAAGCAGGCAAACCTCAGAAGATA	11663
Sbjct	11570	.....	11629
Query	11664	ACGGAAGGGGAAAAGATGAAAGTTGCCATAGATTTGAGGATATAGAGTTCTGTTCTCAT	11723
Sbjct	11630	.....	11689
Query	11724	ACCCAGTCCCTGTTAGGTGGTCCGACAACACCAGTAGTCACATGGCCGGGAGAGACACC	11783
Sbjct	11690	.....	11749
Query	11784	GCTGTGATACTATCAAAGATGGCAACAAGATTGGATTCAAGTGGAGAGAGGGGTACCACA	11843
Sbjct	11750	.....	11809
Query	11844	GCATATGAAAAGCGGTAGCCTTCAGTTTCTTGCTGATGTATTCCTGGAACCCGCTTGTT	11903
Sbjct	11810	.....	11869
Query	11904	AGGAGGATTTGCCTGTTGGTCCTTTCGCAACAGCCAGAGACAGACCCATCAAACATGCC	11963
Sbjct	11870	.....	11929
Query	11964	ACTTATTATTACAAAGGTGATCCAATAGGGGCCATAAAGATGTAATAGGTCGGAATCTA	12023
Sbjct	11930	.....	11989
Query	12024	AGTGAAGTGAAGAGAACAGGCTTTGAGAAATTGGCAAATCTAAACCTAAGCCTGTCCACG	12083
Sbjct	11990	.....	12049
Query	12084	TTGGGGGTCTGGACTAAGCACACAAGCAAAAGAATAATTCAGGACTGTGTTGCCATTGGG	12143
Sbjct	12050	.....	12109
Query	12144	AAAGAAGAGGGCAACTGGCTAGTTAAGCCCGACAGGCTGATATCCAGCAAACTGGCCAC	12203
Sbjct	12110	.....	12169
Query	12204	TTATACATACCTGATAAAGGCTTTACATTACAAGGAAAGCATTATGAGCAACTGCAGCTA	12263
Sbjct	12170	.....	12229
Query	12264	AGAACAGAGACAAACCCGGTCATGGGG-TTGGGACTGAGAGATACAAGTTAGGTCCCATA	12322
Sbjct	12230	.....G.....	12289

Query	12323	GTCAATCTGCTGCTGAGAAGGTTGAAAATTCTGCTCATGACGGCCGTCGGCGTCAGCAGC	12382
Sbjct	12290	.....	12349
Query	12383	TGAGACAAAATGTATATATTGTAAATAAATTAATCCATGTACATAGTGTATATAAATATA	12442
Sbjct	12350	.....	12409
Query	12443	GTTGGGACCGTCCACCTCAAGAAGACGACACGCCCAACACGCACAGCTAAACAGTAGTCA	12502
Sbjct	12410	.....	12469
Query	12503	AGATTATCTACCTCAAGATAACACTACATTTAATGCACACAGCACTTTAGCTGTATGAGG	12562
Sbjct	12470	.....	12529
Query	12563	ATACGCCCGACGTCTATAGTTGGACTAGGGAAGACCTCTAACAG	12606
Sbjct	12530	.....	12573

Score = 1284 bits (695), Expect = 0.0
Identities = 695/695 (100%), Gaps = 0/695 (0%)
Strand=Plus/Plus

Query	1	GTATACGAGAATTAGAAAAGGCACTCGTATACGTATTGGGCAATTAAAAATAATAATTAG	60
Sbjct	1	.....	60
Query	61	GCCTAGGGAAACAAATCCCTCTCAGCGAAGGCCGAAAAGAGGCTAGCCATGCCCTTAGTAG	120
Sbjct	61	.....	120
Query	121	GACTAGCATAATGAGGGGGTAGCAACAGTGGTGAGTTCGTTGGATGGCTTAAGCCCTGA	180
Sbjct	121	.....	180
Query	181	GTACAGGGTAGTCGTCAGTGGTTCGACGCCTTGAATAAAGGTCTCGAGATGCCACGTGG	240
Sbjct	181	.....	240
Query	241	ACGAGGGCATGCCCAAAGCACATCTTAACCTGAGCGGGGGTCGCCCAGGTAAAAGCAGTT	300
Sbjct	241	.....	300
Query	301	TTAACCGACTGTTACGAATACAGCCTGATAGGGTGCTGCAGAGGCCCACTGTATTGCTAC	360
Sbjct	301	.....	360
Query	361	TAAAAATCTCTGCTGTACATGGCACATGGAGTTGATCACAAATGAACTTTTATACAAAAC	420
Sbjct	361	.....	420
Query	421	ATACAAACAAAAACCCGTCGGGGTGGAGGAACCTGTTTATGATCAGGCAGGTGATCCCTT	480
Sbjct	421	.....	480
Query	481	ATTTGGTGAAAGGGGAGCAGTCCACCCTCAATCGACGCTAAAGCTCCACACAAGAGAGG	540
Sbjct	481	.....	540
Query	541	GGAACGCGATGTTCCAACCAACTTGGCATCCTTACCAAAAAGAGGTGACTGCAGGTCGGG	600
Sbjct	541	.....	600
Query	601	TAATAGCAGAGGACCTGTGAGCGGGATCTACCTGAAGCCAGGGCCACTATTTTACCAGGA	660
Sbjct	601	.....	660
Query	661	CTATAAAGGTCCCGTCTATCACAGGGCCCCGCTGG	695
Sbjct	661	.....	695

>  [gi|7960753|emb|AJ133738.1|BVI133738](#)  Bovine viral diarrhea virus complete RNA g
Length=12578

Score = 2.132e+04 bits (11546), Expect = 0.0
Identities = 11660/11690 (99%), Gaps = 8/11690 (0%)
Strand=Plus/Plus

Query	929	TCAGACACGAAAGAAGAGGGAGCAACAAAAAGAAAACACAGAAACCCGACAGACTAGAA	988
Sbjct	890	.....	949
Query	989	AGGGGGAAAATGAAAATAGTGCCCAAAGAATCTGAAAAGACAGCAAACTAAACCTCCG	1048
Sbjct	950	.....	1009
Query	1049	GATGCTACAATAGTGGTGGGAAGGAGTCAAATACCAGGTGAGGAAGAAGGGAAAAACCAAG	1108
Sbjct	1010	.....	1069
Query	1109	AGTAAAAACACTCAGGACGGCTTGTACCATAACAAAAACAAACCTCAGGAATCACGCAAG	1168
Sbjct	1070	.....	1129
Query	1169	AAACTGGAAAAAGCATTGTTGGCGTGGGCAATAATAGCTATAGTTTTGTTTCAAGTTACA	1228
Sbjct	1130	.....	1189
Query	1229	ATGGGAGAAAACATAACACAGTGGAACCTACAAGATAATGGGACGGAAGGGATACAACGG	1288
Sbjct	1190	.....	1249
Query	1289	GCAATGTTCCAAAGGGGTGTGAATAGAAGTTTACATGGAATCTGGCCAGAGAAAATCTGT	1348
Sbjct	1250	.....	1309
Query	1349	ACTGGCGTCCCTTCCCCTCTAGCCACCGATATAGAACTAAAACAATTCATGGTATGATG	1408
Sbjct	1310	.....T.....	1369
Query	1409	GATGCAAGTGAGAAGACCAACTACACGTGTTGCAGACTTCAACGCCATGAGTGGAAACAAG	1468
Sbjct	1370	.....	1429
Query	1469	CATGGTTGGTGCAACTGGTACAATATTGAACCCTGGATTCTAGTCATGAATAGAACCCAA	1528
Sbjct	1430	.....	1489
Query	1529	GCCAATCTCACTGAGGGACAACCACCAAGGGAGTGCGCAGTCACTTGTAGGTATGATAGG	1588
Sbjct	1490	.....	1549
Query	1589	GCTAGTGACTTAAACGTGGTAACACAAGCTAGAGATAGCCCCACACCCTTAACAGGTTGC	1648
Sbjct	1550	.....	1609
Query	1649	AAGAAAGGAAAGAACTTCTCCTTTGCAGGCATATTGATGCGGGGCCCTGCAACTTTGAA	1708
Sbjct	1610	.....	1669
Query	1709	ATAGCTGCAAGTGATGTATTATTCAAAGAACATGAACGCATTAGTATGTTCCAGGATACT	1768
Sbjct	1670	.....	1729
Query	1769	ACTCTTTACCTTGTTGACGGGTTGACCAACTCCTTAGAAGGTGCCAGACAAGGAACCGCT	1828
Sbjct	1730	.....	1789
Query	1829	AAACTGACAACCTGGTTAGGCAAGCAGCTCGGGATACTAGGAAAAAGTTGGAAAACAAG	1888
Sbjct	1790	.....	1849
Query	1889	AGTAAGACGTGGTTTGGAGCATACGCTGCTTCCCCTTACTGTGATGTGCGATCGCAAAATT	1948
Sbjct	1850	.....	1909
Query	1949	GGCTACATATGGTATACAAAAAATTGCACCCCTGCCTGCTTACCCAAGAACACAAAAATT	2008
Sbjct	1910	.....	1969
Query	2009	GTCGGCCCTGGGAAATTTGACACCAATGCAGAGGACGGCA-GATATTACATGAGATGGGG	2067
Sbjct	1970	.....A.....	2029
Query	2068	GGTCACTTGTGCGGAGGTACTACTACTTTCTTTAGTGGTGCTGTCCGACTTCGCACCGGAA	2127
Sbjct	2030	.....	2089
Query	2128	ACAGCTAGTGTAATGTACCTAATCCTACATTTTCCATCCCACAAAGTCACGTTGATGTA	2187
Sbjct	2090	.....	2149

Query	2188	ATGGATTGTGATAAGACCCAGTTGAACCTCACAGTGGAGCTGACAACAGCTGAAGTAATA	2247
Sbjct	2150	.....T.....	2209
Query	2248	CCAGGGTCGGTCTGGAATCTAGGCAAATATGTATGTATAAGACCAAATTGGTGGCCTTAT	2307
Sbjct	2210	..T..A..A.....C.....GG.....	2269
Query	2308	GAGACAACCTGTAGTGTGGCATTGGAAGAGGTGAGCCAGGTGGTGAAGTTAGTGTGAGG	2367
Sbjct	2270	.....G.....	2329
Query	2368	GCACTCAGAGATTTAACACGCATTTGGAACGCTGCAACAACCTACTGCTTTTTTAGTATGC	2427
Sbjct	2330	.....G.....C...A.....	2389
Query	2428	CTTGTTAAGATAGTCAGGGGCCAGATGGTACAGGGCATTCTGTGGCTACTATTGATAACA	2487
Sbjct	2390	.....C.....	2449
Query	2488	GGGGTACAAGGGCACTTGGATTGCAAACCTGAATTCTCGTATGCCATAGCAAAGGACGAA	2547
Sbjct	2450	.....	2509
Query	2548	AGAATTGGTCAACTGGGGGCTGAAGGCCTTACCACCCTTGAAGGAATACTCACCTGGA	2607
Sbjct	2510	.....	2569
Query	2608	ATGAAGCTGGAAGACACAATGGTCATTGCTTGGTGCGAAGATGGGAAGTTAATGTACCTC	2667
Sbjct	2570	.....	2629
Query	2668	CAAAGATGCACGAGAGAAACCAGATATCTCGCAATCTGCATACAAGAGCCTTGCCGACC	2727
Sbjct	2630	.....	2689
Query	2728	AGTGTGGTATTCAAAAACTCTTTGATGGGCGAAAGCAAGAGGATGTAGTCGAAATGAAC	2787
Sbjct	2690	.....	2749
Query	2788	GACAACCTTTGAATTTGGACTCTGCCCATGTGATGCCAAACCCATAGTAAGAGGGAAGTTC	2847
Sbjct	2750	.....	2809
Query	2848	AATACAACGCTGCTGAACGGACCGGCCTTCCAGATGGTATGCCCCATAGGATGGACAGGG	2907
Sbjct	2810	.....	2869
Query	2908	ACTGTAAGCTGTACGTCATTCAATATGGACACCTTAGCCACAACCTGTGGTACGGACATAT	2967
Sbjct	2870	.....	2929
Query	2968	AGAAGGTCTAAACCATTCCCTCATAGGCAAGGCTGTATCACCCAAAAGAATCTGGGGGAG	3027
Sbjct	2930	.....	2989
Query	3028	GATCTCCATAACTGCATCCTTGGAGGAAATTGGACTTGTGTGCCTGGAGACCAACTACTA	3087
Sbjct	2990	.....	3049
Query	3088	TACAAAGGGGGCTCTATTGAATCTTGCAAGTGGTGTGGCTATCAATTTAAAGAGAGTGAG	3147
Sbjct	3050	.....	3109
Query	3148	GGACTACCACACTACCCCATTTGGCAAGTGTAATTTGGAGAACGAGACTGGTTACAGGCTA	3207
Sbjct	3110	.....	3169
Query	3208	GTAGACAGTACCTCTTGCAATAGAGAAGGTGTGGCCATAGTACCACAAGGGACATTAAAG	3267
Sbjct	3170	.....	3229
Query	3268	TGCAAGATAGGAAAAACAACCTGTACAGGTCATAGCTATGGATACCAAACCTCGGACCTATG	3327
Sbjct	3230	.....	3289
Query	3328	CCTTGACAGACCATATGAAATCATATCAAGTGAGGGGCCTGTAGAAAAGACAGCGTGTACT	3387
Sbjct	3290	.....	3349
Query	3388	TTCAACTACACTAAGACATTAATAAATAAGTATTTGAGCCCAGAGACAGCTACTTTTCAG	3447
Sbjct	3350	.....	3409

Query	3448	CAATACATGCTAAAAGGAGAGTATCAATACTGGTTTGACCTGGAGGTGACTGACCATCAC	3507
Sbjct	3410	.....	3469
Query	3508	CGGGATTACTTCGCTGAGTCCATATTAGTGGTGGTAGTAGCCCTCTTGGGTGGCAGATAT	3567
Sbjct	3470	.....	3529
Query	3568	GTACTTTGGTTACTGGTTACATACATGGTCTTATCAGAACAGAAGGCCTTAGGGATTTCAG	3627
Sbjct	3530	.....	3589
Query	3628	TATGGATCAGGGGAAGTGGTGATGATGGGCAACTTGCTAACCATAACAATATTGAAGTG	3687
Sbjct	3590	.....	3649
Query	3688	GTGACATACTTCTTGCTGCTGTACCTACTGCTGAGGGAGGAGAGCGTAAAGAAGTGGGTC	3747
Sbjct	3650	.....	3709
Query	3748	TTACTCTTATACCACATCTTAGTGGTACACCCAATCAAATCTGTAATTGTGATCCTACTG	3807
Sbjct	3710	.....	3769
Query	3808	ATGATTGGGGATGTGGTAAAGGCCGATTGAGGGGGCCAAGAGTACTTGGGGAAAATAGAC	3867
Sbjct	3770	.....	3829
Query	3868	CTCTGTTTTACAACAGTAGTACTAATCGTCATAGGTTTAATCATAGCCAGGCGTGACCCA	3927
Sbjct	3830	.....	3889
Query	3928	ACTATAGTGCCACTGGTAACAATAATGGCAGCACTGAGGGTCACTGAACTGACCCACCAG	3987
Sbjct	3890	.....	3949
Query	3988	CCTGGAGTTGACATCGCTGTGGCGGTCATGACTATAACCCTACTGATGGTTAGCTATGTG	4047
Sbjct	3950	.....	4009
Query	4048	ACAGATTATTTTAGATATAAAAAATGGTTACAGTGCATTCTCAGCCTGG-ATCTGGGGTG	4106
Sbjct	4010	.....T.....	4069
Query	4107	TTCTTGATAAGAAGCCTAATATACCTAGGTAGAATCGAGATGCCAGAGGTAACATCCCA	4166
Sbjct	4070	.....	4129
Query	4167	AACTGGAGACCACTAACTTTAATACATATATATTTGATCTCAACAACAATTGTAACGAGG	4226
Sbjct	4130	.....	4189
Query	4227	TGGAAGGTTGACGTGGCTGGCCTATTGTTGCAATGTGTGCCTATCTTATTGCTGGTCACA	4286
Sbjct	4190	.....	4249
Query	4287	ACCTTGTTGGGCCGACTTCTTAACCCTAATACTGATCCTGCCTACCTATGAATTGGTTAAA	4346
Sbjct	4250	.....	4309
Query	4347	TTATACTATCTGAAAACGTTAGGACTGATATAGAAAGAAGTTGGCTAGGGGGGATAGAC	4406
Sbjct	4310	.....	4369
Query	4407	TATACAAGAGTTGACTCCATCTACGACGTTGATGAGAGTGGAGAGGGCGTATATCTTTTT	4466
Sbjct	4370	.....	4429
Query	4467	CCATCAAGGCAGAAAGCACAGGGGAATTTTCTATACTCTTGCCCCCTTATCAAAGCAACA	4526
Sbjct	4430	.....	4489
Query	4527	CTGATAAGTTGCGTCAGCAGTAAATGGCAGCTAATATACATGAGTTACTTAACTTTGGAC	4586
Sbjct	4490	.....	4549
Query	4587	TTTATGTACTACATGCACAGGAAAGTTATAGAAGAGATCTCAGGAGGTACCAACATAATA	4646
Sbjct	4550	.....	4609
Query	4647	TCCAGGTTAGTGGCAGCACTCATAGAGCTGAACTGGTCCATGGAAGAAGAGGAGAGCAAA	4706
Sbjct	4610	.....	4669

Query	4707	GGCTTAAAGAAGTTTTATCTATTGTCTGGAAGGTTGAGAAACCTAATAATAAACATAAG	4766
Sbjct	4670	.....	4729
Query	4767	GTAAGGAATGAGACCGTGGCTTCTTGGTACGGGGAGGAGGAAGTCTACGGTATGCCAAAG	4826
Sbjct	4730	.....	4789
Query	4827	ATCATGACTATAATCAAGGCCAGTACACTGAGTAAGAGCAGGCACTGCATAATATGCACT	4886
Sbjct	4790	.....	4849
Query	4887	GTATGTGAGGGCCGAGAGTGGAAAGGTGGCACCTGCCCAAATGTGGACGCCATGGGAAG	4946
Sbjct	4850	.....	4909
Query	4947	CCGATAACGTGTGGGATGTGCTAGCAGATTTTGAAGAAAGACACTATAAAAGAATCTTT	5006
Sbjct	4910	.....	4969
Query	5007	ATAAGGGAAGGCAACTTTGAGGGTATGTGCAGCCGATGCCAGGGAAGCATAGGAGGTTT	5066
Sbjct	4970	.....	5029
Query	5067	GAAATGGACCGGGAACCTAAGAGTGCCAGATACTGTGCTGAGTGTAAATAGGCTGCATCCT	5126
Sbjct	5030	.....	5089
Query	5127	GCTGAGGAAGGTGACTTTTGGGCAGAGTCGAGCATGTTGGGCCCTCAAATCACCTACTTT	5186
Sbjct	5090	.....	5149
Query	5187	GCGCTGATGGATGGAAAGGTGTATGATATCACAGAGTGGGCTGGATGCCAGCGTGTGGGA	5246
Sbjct	5150	.....	5209
Query	5247	ATCTCCCCAGATACCCACAGAGTCCCTTGTACATCTCATTTGGTTTACGGATGCCTTTC	5306
Sbjct	5210	.....	5269
Query	5307	AGGCAGGAATACAATGGCTTTGTACAATATACCGCTAGGGGGCAACTATTTCTGAGAAAC	5366
Sbjct	5270	.....	5329
Query	5367	TTGCCCCGTACTGGCAACTAAAGTAAAAATGCTCATGGTAGGCAACCTTGGAGAAGAAATT	5426
Sbjct	5330	.....	5389
Query	5427	GGTAATCTGGAACATCTTGGGTGGATCCTAAGGGGGCCTGCCGTGTGTAAGAAGATCACA	5486
Sbjct	5390	.....	5449
Query	5487	GAGCACGAAAAATGCCACATTAATATACTGGATAAACTAACCGCATTTTTTCGGGATCATG	5546
Sbjct	5450	.....	5509
Query	5547	CCAAGGGGGACTACACCCAGAGCCCCGGTGAGGTTCCCTACGAGCTTACTAAAAGTGAGG	5606
Sbjct	5510	.....	5569
Query	5607	AGGGGTCTGGAGACTGGCTGGGCTTACACACACCAAGGCGGGATAAGTTTCAGTCGACCAT	5666
Sbjct	5570	.....	5629
Query	5667	GTAACCGCCGGAAGATCTACTGGTCTGTGACAGCATGGGACGAACTAGAGTGGTTTGC	5726
Sbjct	5630	.....	5689
Query	5727	CAAAGCAACAACAGGTTGACCGATGAGACAGAGTATGGCGTCAAGACTGACTCAGGGTGC	5786
Sbjct	5690	.....	5749
Query	5787	CCAGACGGTGCCAGATGTTATGTGTTAAATCCAGAGGCCGTTAACATATCAGGATCCAAA	5846
Sbjct	5750	.....	5809
Query	5847	GGGGCAGTCGTTTACCTCCAAAAGACAGGTGGAGAATTACGTGTGTACCCGCATCAGGC	5906
Sbjct	5810	.....	5869
Query	5907	ACACCGGCTTTCTTCGACCTAAAAAACTTGAAAGGATGGTCAGGCTTGCCTATATTTGAA	5966
Sbjct	5870	.....	5929

Query	5967	GCCTCCAGCGGGAGGGTGGTTGGCAGAGTCAAAGTAGGGAAGAATGAAGAGTCTAAACCT	6026
Sbjct	5930	.....	5989
Query	6027	ACAAAAATAATGAGTGGAAATCCAGACCGTCTCAAAAAACACAGCAGACCTGACCGAGATG	6086
Sbjct	5990	.....	6049
Query	6087	GTCAAGAAGATAACCAGCATGAACAGGGGAGACTTCAAGCAGATTACTTTGGCAACAGGG	6146
Sbjct	6050	.....	6109
Query	6147	-CAGGCAAACCACAGAACTCCCAAAGCAGTTATAGAGGAGATAGGAAGACACAAGAGA	6205
Sbjct	6110	G.....	6169
Query	6206	GTATTAGTTCTTATACCATTAAGGGCAGCGGCAGAGTCAGTCTACCAGTATATGAGATTG	6265
Sbjct	6170	.....	6229
Query	6266	AAACACCCAAGCATCTCTTTTAACCTAAGGATAGGGGACATGAAAGAGGGGGACATGGCA	6325
Sbjct	6230	.....	6289
Query	6326	ACCGGGATAACCTATGCATCATACGGGTACTTCTGCCAAATGCCTCAACCAAAGCTCAGA	6385
Sbjct	6290	.....	6349
Query	6386	GCTGCTATGGTAGAATACTCATACATATTCTTAGATGAATACCATTGTGCCACTCCTGAA	6445
Sbjct	6350	.....	6409
Query	6446	CAACTGGCAATTATCGGGAAGATCCACAGATTTTCAGAGAGTATAAGGGTTGTCGCCATG	6505
Sbjct	6410	.....	6469
Query	6506	ACTGCCACGCCAGCAGGGTCGGTGACCACAACAGGTCAAAGCACCCAATAGAGGAATTC	6565
Sbjct	6470	.....	6529
Query	6566	ATAGCCCCCGAGGTAATGAAAGGGGAGGATCTTGGTAGTCAGTTCCTTGATATAGCAGGG	6625
Sbjct	6530	.....	6589
Query	6626	TTAAAAATACCAGTGGATGAGATGAAAGGCAATATGTTGGTTTTTGTACCAACGAGAAAC	6685
Sbjct	6590	.....	6649
Query	6686	ATGGCAGTAGAGGTAGCAAAGAAGCTAAAAGCTAAGGGCTATAACTCTGGATACTATTAC	6745
Sbjct	6650	.....	6709
Query	6746	AGTGGAGAGGATCCAGCCAATCTGAGAGTTGTGACATCACAATCCCCCTATGTAATCGTG	6805
Sbjct	6710	.....	6769
Query	6806	GCTACAAATGCTATTGAATCAGGAGTGACACTACCAGATTGGACACGGTTATAGACACG	6865
Sbjct	6770	.....	6829
Query	6866	GGGTTGAAATGTGAAAAGAGGGTGAGGGTATCATCAAAGATACCTTCATCGTAACAGGC	6925
Sbjct	6830	.....	6889
Query	6926	CTTAAGAGGATGGCCGTGACTGTGGGTGAGCAGGCGCAGCGTAGGGGCAGAGTAGGTAGA	6985
Sbjct	6890	.....	6949
Query	6986	GTGAAACCCGGGAGGTATTATAGGAGCCAGGAAACAGCAACAGGGTCAAAGGACTACCAC	7045
Sbjct	6950	.....T....	7009
Query	7046	TATGACCTCTTGCAGGCACAAAGATACGGGATTGAGGATGGAATCAACGTGACGAAATCC	7105
Sbjct	7010	.....	7069
Query	7106	TTTAGGGAGATGAATTACGATTGGAGCCTATACGAGGAGGACAGCCTACTAATAACCCAG	7165
Sbjct	7070	.....	7129
Query	7166	CTGGAAATACTAAATAATCTACTCATCTCAGAAGACTTGCCAGCCGCTGTTAAGAACATA	7225
Sbjct	7130	.....	7189

Query	7226	ATGGCCAGGACTGATCACCCAGAGCCAATCCAACCTTGCATACAACAGCTATGAAGTCCAG	7285
Sbjct	7190	.....	7249
Query	7286	GTCCCGGTCTCTATTCCCAAAAATAAGGAATGGAGAAGTCACAGACACCTACGAAAATTAC	7345
Sbjct	7250	.....G.....	7309
Query	7346	TCGTTTCTAAATGCCAGAAAGTTAGGGGAGGATGTGCCCGTGTATATCTACGCTACTGAA	7405
Sbjct	7310	.....	7369
Query	7406	GATGAGGATCTGGCAGTTGACCTCTTAGGGCTAGACTGGCCTGATCCTGGGAACCAGCAG	7465
Sbjct	7370	.....	7429
Query	7466	GTAGTGGAGACTGGTAAAGCACTGAAGCAAGTGACCGGGTTGTCTCGGCTGAAAATGCC	7525
Sbjct	7430	.....	7489
Query	7526	CTACTAGTGGCTTTATTTGGGTATGTGGGTACCAGGCTCTCTCAAAGAGGCATGTCCCA	7585
Sbjct	7490	.....	7549
Query	7586	ATGATAACAGACATATATACCATCGAGGACCAGAGACTAGAAGACACCACCCACCTCCAG	7645
Sbjct	7550	.....	7609
Query	7646	TATGCACCCAACGCCATAAAAACCGATGGGACAGAGACTGAACTGAAAGAACTGGCGTCG	7705
Sbjct	7610	.....	7669
Query	7706	GGTGACGTGGAAAAAATCATGGGAGCCATTTTCAGATTATGCAGCTGGGGGACTGGAGTTT	7765
Sbjct	7670	.....	7729
Query	7766	GTTAAATCCCAAGCAGAAAAGATAAAAACAGCTCCTTTGTTTAAAGAAAACGCAGAAGCC	7825
Sbjct	7730	.....	7789
Query	7826	GCAAAAGGGTATGTCCAAAATTCATTGACTCATTAATTGAAAATAAAGAAGAAATAATC	7885
Sbjct	7790	.....	7849
Query	7886	AGATATGGTTTGTGGGGAACACACACAGCACTATACAAAAGCATAGCTGCAAGACTGGGG	7945
Sbjct	7850	.....	7909
Query	7946	CATGAAACAGCGTTTGCCACACTAGTGTTAAAGTGGCTAGCTTTTGGAGGGGAATCAGTG	8005
Sbjct	7910	.....	7969
Query	8006	TCAGACCACGTCAAGCAGGCGGCAGTTGATTTAGTGGTCTATTATGTGATGAATAAGCCT	8065
Sbjct	7970	.....	8029
Query	8066	TCCTTCCAGGTGACTCCGAGACACAGCAAGAAGGGAGGCGATTTCGTGCAAGCCTGTTC	8125
Sbjct	8030	.....	8089
Query	8126	ATCTCCGCACTGGCAACCTACACATACAAAACCTTGAATTACCACAATCTCTCTAAAGTG	8185
Sbjct	8090	.....	8149
Query	8186	GTGGAAC-AGCCCTGGCTTACCTCCCCTATGCTACCAGCGCATTAATAATGTTACCCCCA	8244
Sbjct	8150	.....C.....	8209
Query	8245	ACGCGGCTGGAGAGCGTGGTGATACTGAGCACCACGATATATAAACATACCTCTCTATA	8304
Sbjct	8210	.....	8269
Query	8305	AGGAAGGGGAAGAGTGATGGATTGCTGGGTACGGGGATAAGTGCAGCCATGGAAATCCTG	8364
Sbjct	8270	.....	8329
Query	8365	TCACAAAACCCAGTATCGGTAGGTATATCTGTGATGTTGGGGGTAGGGGCAATCGCTGCG	8424
Sbjct	8330	.....	8389
Query	8425	CACAACGCTATTGAGTCCAGTGAACAGAAAAGGACCCTACTTATGAAGGTGTTTGTAAG	8484
Sbjct	8390	.....	8449

Query	8485	AACTTCTTGGATCAGGCTGCAACAGATGAGCTGGTAAAAGAAAACCCAGAAAAATTATA	8544
Sbjct	8450	.....	8509
Query	8545	ATGGCCTTATTTGAAGCAGTCCAGACAATTGGTAACCCCCTGAGACTAATATACCACCTG	8604
Sbjct	8510	.....	8569
Query	8605	TATGGGGTTTACTACAAAGGTTGGGAGGCCAAGGAACCTATCTGAGAGGACAGCAGGCAGA	8664
Sbjct	8570	.....	8629
Query	8665	AACTTATTCACATTGATAATGTTTGAAGCCTTCGAGTTATTAGGGATGGACTCACAAGGG	8724
Sbjct	8630	.....	8689
Query	8725	AAAATAAGGAACCTGTCCGGAATTACATTTTGGATTTGATATACGGCCTACACAAGCAA	8784
Sbjct	8690	.....	8749
Query	8785	ATCAACAGAGGGCTGAAGAAAATGGTACTGGGGTGGGCCCCTGCACCCTTTAGTTGTGAC	8844
Sbjct	8750	.....	8809
Query	8845	TGGACCCCTAGTGACGAGAGGATCAGATTGCCAACAGACAACCTATTTGAGGGTAGAAACC	8904
Sbjct	8810	.....	8869
Query	8905	AGGTGCCCATGTGGCTATGAGATGAAAGCTTTCAAAAATGTAGGTGGCAAACCTACCAAA	8964
Sbjct	8870	.....	8929
Query	8965	GTGGAGGAGAGCGGGCCTTTCCTATGTAGAAACAGACCTGGTAGGGGACCAGTCAACTAC	9024
Sbjct	8930	.....	8989
Query	9025	AGAGTCACCAAGTATTACGATGACAACCTCAGAGAGATAAAACCAGTAGCAAAGTTGGAA	9084
Sbjct	8990	.....	9049
Query	9085	GGACAGGTAGAGCACTACTACAAAGGGGTACAGCAAAAATTGACTACAGTAAAGGAAAA	9144
Sbjct	9050	.....	9109
Query	9145	ATGCTCTTGGCCACTGACAAGTGGGAGGTGGAACATGGTGTCTATAACCAGGTAGCTAAG	9204
Sbjct	9110	.....	9169
Query	9205	AGATATACTGGGGTCGGGTTCATGGTGCATACTTAGGTGACGAGCCCAATCACCGTGCT	9264
Sbjct	9170	.....	9229
Query	9265	CTAGTGGAGAGGGACTGTGCAACTATAACCAAAAACACAGTACAGTTTCTAAAAATGAAG	9324
Sbjct	9230	.....	9289
Query	9325	AAGGGGTGTGCGTTCACCTATGACCTGACCATCTCCAATCTGACCAGGCTCATCGAACTA	9384
Sbjct	9290	.....	9349
Query	9385	GTACACAGGAACAATCTTGAAGAGAAGGAAATACCCACCGCTACGGTCACCACATGGCTA	9444
Sbjct	9350	.....	9409
Query	9445	GCTTACACCTTCGTGAATGAAGACGTAGGGACTATAAAACCAGTACTAGGAGAGAGAGTA	9504
Sbjct	9410	.....	9469
Query	9505	ATCCCCGACCCTGTAGTTGATATCAATTTACAACCAGAGGTGCAAGTGGACACGTCAGAG	9564
Sbjct	9470	.....	9529
Query	9565	GTTGGGATCACAATAATTGGAAGGGAAACCCTGATGACAACGGGAGTGACACCTGTCTTG	9624
Sbjct	9530	.....	9589
Query	9625	GAAAAAGTAGAGCCTGACGCCAGCGACAACCAAAACTCGGTGAAGATCGGGTTGGATGAG	9684
Sbjct	9590	.....	9649
Query	9685	GGTAATTACCCAGGGCCTGGAATACAGACACATACACTAACAGAAGAAATACACAACAGG	9744
Sbjct	9650	.....	9709

Query	9745	GATGCGAGGCCCTTCATCATGATCCTGGGCTCAAGGAATTCATATCAAATAGGGCAAAG	9804
Sbjct	9710	.....	9769
Query	9805	ACTGCTAGAAATATAAATCTGTACACAGGAAATGACCCAGGGAAATACGAGACTTGATG	9864
Sbjct	9770	.....	9829
Query	9865	GCTGCAGGGCGCATGTTAGTAGTAGCACTGAGGGATGTCGACCCTGAGCTGTCTGAAATG	9924
Sbjct	9830	.....	9889
Query	9925	GTCGATTTCAAGGGGACTTTTTTAGATAGGGAGGCCCTGGAGGCTCTAAGTCTCGGGCAA	9984
Sbjct	9890	.....	9949
Query	9985	CCTAAACCGAAGCAGGTTACCAAGGAAGCTGTTAGGAATTTGATAGAACAGAAAAAGAT	10044
Sbjct	9950	.....	10009
Query	10045	GTGGAGATCCCTAACTGGTTTGCATCAGATGACCCAGTATTTCTGGAAGTGGCCTTAAAA	10104
Sbjct	10010	.....	10069
Query	10105	AATGATAAGTACTACTTAGTAGGAGATGTTGGAGAGCTAAAAGATCAAGCTAAAGCACTT	10164
Sbjct	10070	.....G.....	10129
Query	10165	GGGGCCACGGATCAGACAAGAATTATAAAGGAGGTAGGCTCAAGGACGTATGCCATGAAG	10224
Sbjct	10130	.....	10189
Query	10225	CTATCTAGCTGGTTCC-CAAGGCATCAAACAAACAGATGAGTTTAACTCCACTGTTTGAG	10283
Sbjct	10190	.....T.C.....	10249
Query	10284	GAATTGTTGCTACGGTGCCACCTGCAACTAAGAGCAATAAGGGGCACATGGCATCAGCT	10343
Sbjct	10250	.....	10309
Query	10344	TACCAATTGGCACAGGGTAACTGGGAGCCCTCGGTTGCGGGGTGCACCTAGGTACAATA	10403
Sbjct	10310	.....	10369
Query	10404	CCAGCCAGAAGGGTGAAGATACCCCATATGAAGCTTACCTGAAGTTGAAAGATTTCATa	10463
Sbjct	10370	.....	10429
Query	10464	gaagaagaagagaagaaACCTAGGGTTAAGGATACAGTAATAAGAGAGCACAAACAATGG	10523
Sbjct	10430	.....	10489
Query	10524	ATACTTaaaaaaaTAAGGTTTCAAGGAAACCTCAACACCAAGAAAATGCTCAACCCAGGG	10583
Sbjct	10490	.....T...	10549
Query	10584	AAACTATCTGAACAGTTGGACAGGGAGGGGCGCAAGAGGAACATCTACAACCACCAGATT	10643
Sbjct	10550	.....	10609
Query	10644	GGTACTATAATGTCAAGTGCAGGCATAAGGCTGGAGAAATTGCCAATAGTGAGGGCCCAA	10703
Sbjct	10610	.....	10669
Query	10704	ACCGACACCAAAACCTTTCATGAGGCAATAAGAGATAAGATAGACAAGAGTAAAACCGG	10763
Sbjct	10670	.....	10729
Query	10764	CAAAATCCAGAATTGCACAACAAATTGTTGGAGATTTTCCACACGATAGCCCAACCCACC	10823
Sbjct	10730	.....	10789
Query	10824	CTGAAACACACCTACGGTGAGGTGACGTGGGAGCAACTTGAGGCGGGGTAAATAGAAAG	10883
Sbjct	10790	.....A.....	10849
Query	10884	GGGGCAGCAGGCTTCCTGGAGAAGAAGAACATCGGAGAAGTATTGGATTAGAAAAGCAC	10943
Sbjct	10850	.....	10909
Query	10944	CTGGTAGAACAATTGGTCAGGGATCTGAAGGCCGGGAGAAAGATAAAATATTATGAACT	11003
Sbjct	10910	.....	10969

Query	11004	GCAATACCAAAAAATGAGAAGAGAGATGTCAGTGATGACTGGCAGGCAGGGGACCTGGTG	11063
Sbjct	10970	.....	11029
Query	11064	GTTGAGAAGAGGCCAAGAGTTATCCAATACCCTGAAGCCAAGACAAGGCTAGCCATCACT	11123
Sbjct	11030	.....	11089
Query	11124	AAGGTCATGTATAACTGGGTGAAACAGCAGCCCGTTGTGATTCCAGGATATGAAGGAAAG	11183
Sbjct	11090	.....	11149
Query	11184	ACCCCTTGTTC AACATCTTTGATAAAGTGAGAAAGGAATGGGACTCGTTCAATGAGCCA	11243
Sbjct	11150	.....	11209
Query	11244	GTGGCCGTAAGTTTTGACACCAAAGCCTGGGACACTCAAGTGACTAGTAAGGATCTGCAA	11303
Sbjct	11210	.....	11269
Query	11304	CTTATTGGAGAAATCCAGAAATATTACTATAAGAAGGAGTGGCACAAGTTCATTGACACC	11363
Sbjct	11270	.....	11329
Query	11364	ATCACC GACCACATGACAGAAGTACCAGTTATAACAGCAGATGGTGAAGTATATATAAGA	11423
Sbjct	11330	.....	11389
Query	11424	AATGGGCAGAGAGGGAGCGGCCAGCCAGACACAAGTGCTGGCAACAGCATGTTAAATGTC	11483
Sbjct	11390	.....	11449
Query	11484	CTGACAATGATGTACGGCTTCTGCGAAAGCACAGGGGTACCGTACAAGAGTTTCAACAGG	11543
Sbjct	11450	.....C	11509
Query	11544	GTGGCAAGGATCCACGTCTGTGGGGATGATGGCTTCTTAATAACTGAAAAGGGTTAGGG	11603
Sbjct	11510	.....	11569
Query	11604	CTGAAATTTGCTAACAAAGGGATGCAGATTCTTCATGAAGCAGGCAAACCTCAGAAGATA	11663
Sbjct	11570	.....	11629
Query	11664	ACGGAAGGGGAAAAGATGAAAGTTGCCTATAGATTTGAGGATATAGAGTTCTGTTCTCAT	11723
Sbjct	11630	.....	11689
Query	11724	ACCC CAGTCCCTGTTAGGTGGTCCGACAACACCAGTAGTCACATGGCCGGGAGAGACACC	11783
Sbjct	11690	.....	11749
Query	11784	GCTGTGATACTATCAAAGATGGCAACAAGATTGGATTCAAGTGGAGAGAGGGGTACCACA	11843
Sbjct	11750	.....T	11809
Query	11844	GCATATGAAAAGCGGTAGCCTTCAGTTTCTTGCTGATGTATTCTTGGAACCCGCTTGTT	11903
Sbjct	11810	.....	11869
Query	11904	AGGAGGATTTGCCTGTTGGTCCTTTCGCAACAGCCAGAGACAGACCCATCAAAACATGCC	11963
Sbjct	11870	.....	11929
Query	11964	ACTTATTATTACAAAGGTGATCCAATAGGGGCCATATAAAGATGTAATAGGTCGGAATCTA	12023
Sbjct	11930	.....	11989
Query	12024	AGTGAAC TGAAGAGAACAGGCTTTGAGAAATTGGCAAATCTAAACCTAAGCCTGTCCACG	12083
Sbjct	11990	.....	12049
Query	12084	TTGGGGGTCTGGACTAAGCACACAAGCAAAAGAATAATT CAGGACTGTGTTGCCATTGGG	12143
Sbjct	12050	.....A	12109
Query	12144	AAAGAAGAGGGCAACTGGCTAGTTAA- GCGGACAGGCTGATATCCAGCAAAACTGGCCA	12202
Sbjct	12110	.....C	12168
Query	12203	CTTATACATACCTGATAAAGGCTTTACATTACAAGGAAAGCATTATGAGCAACTGCAGCT	12262
Sbjct	12169	.....	12228

Query	12263	AAGAACAGAGACAAACCCGGTCATGGGG-TTGGGACTGAGAGATACAAGTTAGGTCCCAT	12321
Sbjct	12229	.....G.....	12288
Query	12322	AGTCAATCTGCTGCTGAGAAGGTTGAAAATTCTGCTCATGACGGCCGTCGGCGTCAGCAG	12381
Sbjct	12289	.....	12348
Query	12382	CTGAGACAAAATGTATATATTGTAAATAAATTAATCCATGTACATAGTGTATATAAATAT	12441
Sbjct	12349	.....	12408
Query	12442	AGTTGGGACCGTCCACCTCAAGAAGACGACACGCCCAACACGCACAGCTAAACAGTAGTC	12501
Sbjct	12409	.....	12468
Query	12502	AAGATTATCTACCTCAAGATAACACTACATTTAATGCACACAGCACTTTAGCTGTATGAG	12561
Sbjct	12469	.....	12528
Query	12562	GATACGCCCGACGTCTATAGTTGGACTAGGGAAGACCTCTAACAGCCCCC	12611
Sbjct	12529	.....	12578

Score = 1284 bits (695), Expect = 0.0
Identities = 695/695 (100%), Gaps = 0/695 (0%)
Strand=Plus/Plus

Query	1	GTATACGAGAATTAGAAAAGGCACCTCGTATACGTATTGGGCAATTAAAAATAATAATTAG	60
Sbjct	1	.....	60
Query	61	GCCTAGGGAACAAATCCCTCTCAGCGAAGGCCGAAAAGAGGCTAGCCATGCCCTTAGTAG	120
Sbjct	61	.....	120
Query	121	GACTAGCATAATGAGGGGGGTAGCAACAGTGGTGAGTTCGTGGATGGCTTAAGCCCTGA	180
Sbjct	121	.....	180
Query	181	GTACAGGGTAGTCGTCAGTGGTTCGACGCCTTGAATAAAGGTCTCGAGATGCCACGTGG	240
Sbjct	181	.....	240
Query	241	ACGAGGGCATGCCCAAAGCACATCTTAACCTGAGCGGGGGTCGCCCAGGTAAAAGCAGTT	300
Sbjct	241	.....	300
Query	301	TTAACCGACTGTTACGAATACAGCCTGATAGGGTGCTGCAGAGGCCCACTGTATTGCTAC	360
Sbjct	301	.....	360
Query	361	TAAAAATCTCTGCTGTACATGGCACATGGAGTTGATCACAAATGAACTTTTATACAAAAC	420
Sbjct	361	.....	420
Query	421	ATACAAACAAAAACCCGTCGGGGTGGAGGAACCTGTTTATGATCAGGCAGGTGATCCCTT	480
Sbjct	421	.....	480
Query	481	ATTTGGTGAAAGGGGAGCAGTCCACCCTCAATCGACGCTAAAGCTCCACACAAGAGAGG	540
Sbjct	481	.....	540
Query	541	GGAACGCGATGTTCCAACCAACTTGGCATCCTTACCAAAAAGAGGTGACTGCAGGTCGGG	600
Sbjct	541	.....	600
Query	601	TAATAGCAGAGGACCTGTGAGCGGGATCTACCTGAAGCCAGGGCCACTATTTTACCAGGA	660
Sbjct	601	.....	660
Query	661	CTATAAAGGTCCCGTCTATCACAGGGCCCCGCTGG	695
Sbjct	661	.....	695

> [gi|9049956|gb|AF268278.1|AF268278](#) **D** Pestivirus type 1, complete genome
Length=12734

Score = 2.131e+04 bits (11537), Expect = 0.0
 Identities = 11657/11691 (99%), Gaps = 8/11691 (0%)
 Strand=Plus/Plus

Query	928	TTCAGACACGAAAGAAGAGGGAGCAACAAAAAGAAAACACAGAAACCCGACAGACTAGA	987
Sbjct	1045	.....	1104
Query	988	AAGGGGGAAAATGAAAATAGTGCCCAAAGAATCTGAAAAGACAGCAAACTAAACCTCC	1047
Sbjct	1105	.....C..	1164
Query	1048	GGATGCTACAATAGTGGTGGGAAGGAGTCAAATACCAGGTGAGGAAGAAGGGAAAAACCAA	1107
Sbjct	1165	.....	1224
Query	1108	GAGTAAAAACACTCAGGACGGCTTGTACCATAACAAAAACAAACCTCAGGAATCACGCAA	1167
Sbjct	1225	.....	1284
Query	1168	GAAACTGGAAAAGCATTGTTGGCGTGGGCAATAATAGCTATAGTTTTGTTTCAAGTTAC	1227
Sbjct	1285	.....C.....	1344
Query	1228	AATGGGAGAAAACATAACACAGTGGAACTACAAGATAATGGGACGGAAGGGATACAACG	1287
Sbjct	1345	.....	1404
Query	1288	GGCAATGTTCCAAAGGGGTGTGAATAGAAGTTTACATGGAATCTGGCCAGAGAAAATCTG	1347
Sbjct	1405	.....	1464
Query	1348	TACTGGCGTCCCTTCCCATCTAGCCACCGATATAGAACTAAAAACAATTTCATGGTATGAT	1407
Sbjct	1465	.....T.....	1524
Query	1408	GGATGCAAGTGAGAAGACCAACTACACGTGTTGCAGACTTCAACGCCATGAGTGGAAACAA	1467
Sbjct	1525	.....A.....	1584
Query	1468	GCATGGTTGGTGCAACTGGTACAATATTGAACCCTGGATTCTAGTCATGAATAGAACCCA	1527
Sbjct	1585	.....	1644
Query	1528	AGCCAATCTCACTGAGGGACAACCACCAAGGGAGTGCGCAGTCACTTGTAGGTATGATAG	1587
Sbjct	1645	.....	1704
Query	1588	GGCTAGTGACTTAAACGTGGTAACACAAGCTAGAGATAGCCCCACACCCTTAACAGGTTG	1647
Sbjct	1705	.....	1764
Query	1648	CAAGAAAGGAAAGAACTTCTCCTTTGCAGGCATATTGATGCGGGGGCCCCTGCAACTTTGA	1707
Sbjct	1765	.....	1824
Query	1708	AATAGCTGCAAGTGATGTATTATTCAAAGAACATGAACGCATTAGTATGTTCCAGGATAC	1767
Sbjct	1825	.....	1884
Query	1768	TACTCTTTACCTTGTGACGGGTGACCAACTCCTTAGAAGGTGCCAGACAAGGAACCGC	1827
Sbjct	1885	.....	1944
Query	1828	TAAACTGACAACCTGGTTAGGCAAGCAGCTCGGGATACTAGGAAAAAAGTTGGAAAACAA	1887
Sbjct	1945	.....	2004
Query	1888	GAGTAAGACGTGGTTTGGAGCATACGCTGCTTCCCCCTTACTGTGATGTCGATCGCAAAAT	1947
Sbjct	2005	.....T.....	2064
Query	1948	TGGCTACATATGGTATACAAAAAATTGCACCCCTGCCTGCTTACCCAAGAACACAAAAAT	2007
Sbjct	2065	.....	2124
Query	2008	TGTCGGCCCTGGGAAATTTGACACCAATGCAGAGGACGGCA-GATATTACATGAGATGGG	2066
Sbjct	2125	.....A.....	2184
Query	2067	GGGTCACTTGTTCGGAGGTACTACTACTTTCTTTAGTGGTGCTGTCCGACTTCGCACCGGA	2126

Sbjct	2185	.....	2244
Query	2127	AACAGCTAGTGTAAATGTACCTAATCCTACATTTTCCATCCCACAAAGTCACGTTGATGT	2186
Sbjct	2245	.....	2304
Query	2187	AATGGATTGTGATAAGACCCAGTTGAACCTCACAGTGGAGCTGACAACAGCTGAAGTAAT	2246
Sbjct	2305	.....T.....	2364
Query	2247	ACCAGGGTCGGTCTGGAATCTAGGCAAATATGTATGTATAAGACCAAATTGGTGGCCTTA	2306
Sbjct	2365	...T..A..A.....C.....GG.....	2424
Query	2307	TGAGACAACCTGTAGTGTTGGCATTGGAAGAGGTGAGCCAGGTGGTGAAGTTAGTGTTGAG	2366
Sbjct	2425	.....G.....	2484
Query	2367	GGCACTCAGAGATTTAACACGCATTTGGAACGCTGCAACAACACTACTGCTTTTTTAGTATG	2426
Sbjct	2485	.....G.....C...A....	2544
Query	2427	CCTTGTTAAGATAGTCAGGGGCCAGATGGTACAGGGCATTCTGTGGCTACTATTGATAAC	2486
Sbjct	2545	.....C.....	2604
Query	2487	AGGGGTACAAGGGCACTTGGATTGCAAACCTGAATTCTCGTATGCCATAGCAAAGGACGA	2546
Sbjct	2605	.....	2664
Query	2547	AAGAATTGGTCAACTGGGGGCTGAAGGCCTTACCACCCTTGAAGGAATACTCACCTGG	2606
Sbjct	2665	.....	2724
Query	2607	AATGAAGCTGGAAGACACAATGGTCATTGCTTGGTGCGAAGATGGGAAGTTAATGTACCT	2666
Sbjct	2725	.....	2784
Query	2667	CCAAAGATGCACGAGAGAAACCAGATATCTCGCAATCTTGCATACAAGAGCCTTGCCGAC	2726
Sbjct	2785	.....	2844
Query	2727	CAGTGTGGTATTCAAAAACTCTTTGATGGGCGAAAGCAAGAGGATGTAGTCGAAATGAA	2786
Sbjct	2845	.....	2904
Query	2787	CGACAACCTTTGAATTTGGACTCTGCCCATGTGATGCCAAACCCATAGTAAGAGGGAAGTT	2846
Sbjct	2905	.....	2964
Query	2847	CAATACAACGCTGCTGAACGGACCGGCCTTCCAGATGGTATGCCCCATAGGATGGACAGG	2906
Sbjct	2965	.....	3024
Query	2907	GACTGTAAGCTGTACGTCATTCAATATGGACACCTTAGCCACAACCTGTGGTACGGACATA	2966
Sbjct	3025	.....	3084
Query	2967	TAGAAGGTCTAAACCATTCCTCATAGGCAAGGCTGTATCACCCAAAAGAATCTGGGGGA	3026
Sbjct	3085	.....	3144
Query	3027	GGATCTCCATAACTGCATCCTTGGAGGAAATTGGACTTGTGTGCCCTGGAGACCAACTACT	3086
Sbjct	3145	.....	3204
Query	3087	ATACAAAGGGGGCTCTATTGAATCTTGCAAGTGGTGTGGCTATCAATTTAAAGAGAGTGA	3146
Sbjct	3205	.....	3264
Query	3147	GGGACTACCACACTACCCCATTTGGCAAGTGTAATTTGGAGAACGAGACTGGTTACAGGCT	3206
Sbjct	3265	.....	3324
Query	3207	AGTAGACAGTACCTCTTGCAATAGAGAAGGTGTGGCCATAGTACCACAAGGGACATTAAA	3266
Sbjct	3325	.....	3384
Query	3267	GTGCAAGATAGGAAAAACAACGTACAGGTCATAGCTATGGATACCAAACCTCGGACCTAT	3326
Sbjct	3385	.....	3444
Query	3327	GCCTTGCAGACCATATGAAATCATATCAAGTGAGGGGCCTGTAGAAAAGACAGCGTGTAC	3386

Sbjct	3445	.....	3504
Query	3387	TTTCAACTACACTAAGACATTAAAAAATAAGTATTTTGAGCCCAGAGACAGCTACTTTCA	3446
Sbjct	3505	.....	3564
Query	3447	GCAATACATGCTAAAAGGAGAGTATCAATACTGGTTTGACCTGGAGGTGACTGACCATCA	3506
Sbjct	3565	.....	3624
Query	3507	CCGGGATTACTTCGCTGAGTCCATATTAGTGGTGGTAGAGCCCTCTGGGTGGCAGATA	3566
Sbjct	3625	.....	3684
Query	3567	TGTACTTTGGTTACTGGTTACATACATGGTCTTATCAGAACAGAAGGCCCTTAGGGATTCA	3626
Sbjct	3685	.....	3744
Query	3627	GTATGGATCAGGGGAAGTGGTGATGATGGGCAACTTGCTAACCCATAACAATATTGAAGT	3686
Sbjct	3745	.....	3804
Query	3687	GGTGACATACTTCTTGCTGCTGTACCTACTGCTGAGGGAGGAGAGCGTAAAGAAGTGGGT	3746
Sbjct	3805	.....	3864
Query	3747	CTTACTCTTATACCACATCTTAGTGGTACACCCAATCAAATCTGTAATTGTGATCCTACT	3806
Sbjct	3865	.....	3924
Query	3807	GATGATTGGGGATGTGGTAAAGGCCGATTGAGGGGGCCAAGAGTACTTGGGGAAAATAGA	3866
Sbjct	3925	.....	3984
Query	3867	CCTCTGTTTTACAACAGTAGTACTAATCGTCATAGGTTTAATCATAGCCAGGCGTGACCC	3926
Sbjct	3985	.....	4044
Query	3927	AACTATAGTGCCACTGGTAACAATAATGGCAGCACTGAGGGTCACTGAACCTGACCCACCA	3986
Sbjct	4045	.....	4104
Query	3987	GCCTGGAGTTGACATCGCTGTGGCGGTCATGACTATAACCCTACTGATGGTTAGCTATGT	4046
Sbjct	4105	.....	4164
Query	4047	GACAGATTATTTTAGATATAAAAAATGGTTACAGTGCATTCTCAGCCTGG-ATCTGGGGT	4105
Sbjct	4165	.....T.....	4224
Query	4106	GTTCCTTGATAAGAAGCCTAATATACCTAGGTAGAATCGAGATGCCAGAGGTAACATATCCC	4165
Sbjct	4225	.....	4284
Query	4166	AACTGGAGACCACTAACTTTAATACTATTATATTTGATCTCAACAACAATTGTAACGAG	4225
Sbjct	4285	.....	4344
Query	4226	GTGGAAGGTTGACGTGGCTGGCCTATTGTTGCAATGTGTGCCATCTTATTGCTGGTCAC	4285
Sbjct	4345	.....	4404
Query	4286	AACCTTGTGGGCCGACTTCTTAACCCTAATACTGATCCTGCCCTACCTATGAATTGGTTAA	4345
Sbjct	4405	.....	4464
Query	4346	ATTATACTATCTGAAACTGTTAGGACTGATATAGAAAGAAGTTGGCTAGGGGGGATAGA	4405
Sbjct	4465	.....	4524
Query	4406	CTATACAAGAGTTGACTCCATCTACGACGTTGATGAGAGTGGAGAGGGCGTATATCTTTT	4465
Sbjct	4525	.....	4584
Query	4466	TCCATCAAGGCAGAAAGCACAGGGGAATTTTTCTATACCTTGCCCTTATCAAAGCAAC	4525
Sbjct	4585	.....	4644
Query	4526	ACTGATAAGTTGCGTCAGCAGTAAATGGCAGCTAATATACATGAGTTACTTAACTTTGGA	4585
Sbjct	4645	.....	4704
Query	4586	CTTTATGTACTACATGCACAGGAAAGTTATAGAAGAGATCTCAGGAGGTACCAACATAAT	4645

Sbjct	4705	.....	4764
Query	4646	ATCCAGGTTAGTGGCAGCACTCATAGAGCTGAACTGGTCCATGGAAGAAGAGGAGAGCAA	4705
Sbjct	4765	.....	4824
Query	4706	AGGCTTAAAGAAGTTTTATCTATTGTCTGGAAGGTTGAGAAACCTAATAATAAACATAA	4765
Sbjct	4825	.....	4884
Query	4766	GGTAAGGAATGAGACCGTGGCTTCTTGGTACGGGGAGGAGGAAGTCTACGGTATGCCAAA	4825
Sbjct	4885	.....	4944
Query	4826	GATCATGACTATAATCAAGGCCAGTACACTGAGTAAGAGCAGGCACTGCATAATATGCAC	4885
Sbjct	4945	.....	5004
Query	4886	TGTATGTGAGGGCCGAGAGTGGAAGGTGGCACCTGCCCAAATGTGGACGCCATGGGAA	4945
Sbjct	5005	.....	5064
Query	4946	GCCGATAACGTGTGGGATGTCGCTAGCAGATTTTGAAGAAAGACACTATAAAGAATCTT	5005
Sbjct	5065	.....T.....	5124
Query	5006	TATAAGGGAAGGCAACTTTGAGGGTATGTGCAGCCGATGCCAGGGAAAGCATAGGAGGTT	5065
Sbjct	5125	.....	5184
Query	5066	TGAAATGGACCGGGAACCTAAGAGTGCCAGATACTGTGCTGAGTGTAATAGGCTGCATCC	5125
Sbjct	5185	.....	5244
Query	5126	TGCTGAGGAAGGTGACTTTTGGGCAGAGTCGAGCATGTTGGGCCTCAAATCACCTACTT	5185
Sbjct	5245	.....	5304
Query	5186	TGCGCTGATGGATGGAAGGTGTATGATATCACAGAGTGGGCTGGATGCCAGCGTGTGGG	5245
Sbjct	5305	.....	5364
Query	5246	AATCTCCCCAGATACCCACAGAGTCCCTTGTACATCTCATTTGGTTCACGGATGCCTTT	5305
Sbjct	5365	.....	5424
Query	5306	CAGGCAGGAATACAATGGCTTTGTACAATATACCGCTAGGGGGCAACTATTTCTGAGAAA	5365
Sbjct	5425	.....	5484
Query	5366	CTTGCCCGTACTGGCAACTAAAGTAAAAATGCTCATGGTAGGCAACCTTGGAGAAGAAAT	5425
Sbjct	5485	.....	5544
Query	5426	TGGTAATCTGGAACATCTTGGGTGGATCCTAAGGGGGCCTGCCGTGTGTAAGAAGATCAC	5485
Sbjct	5545	.....	5604
Query	5486	AGAGCACGAAAAATGCCACATTAATATACTGGATAAACTAACCGCATTTTTCGGGATCAT	5545
Sbjct	5605	.....	5664
Query	5546	GCCAAGGGGGACTACACCCAGAGCCCCGGTGAGGTTCCCTACGAGCTTACTAAAAGTGAG	5605
Sbjct	5665	.....	5724
Query	5606	GAGGGGTCTGGAGACTGGCTGGGCTTACACACACCAAGGCGGGATAAGTTCAGTCGACCA	5665
Sbjct	5725	.....	5784
Query	5666	TGTAACCGCCGAAAAGATCTACTGGTCTGTGACAGCATGGGACGAAC TAGAGTGGTTTG	5725
Sbjct	5785	.....	5844
Query	5726	CCAAAGCAACAACAGGTTGACCGATGAGACAGAGTATGGCGTCAAGACTGACTCAGGGTG	5785
Sbjct	5845	.....	5904
Query	5786	CCCAGACGGTGCCAGATGTTATGTGTTAAATCCAGAGGCCGTTAACATATCAGGATCCAA	5845
Sbjct	5905	.....	5964
Query	5846	AGGGGCAGTCGTTACCTCCAAAAGACAGGTGGAGAATTCACGTGTGTCACCGCATCAGG	5905

Sbjct	5965	.....	6024
Query	5906	CACACCGGCTTTCTTCGACCTAAAAAAGCTTGAAGGATGGTCAGGCTTGCCTATATTTGA	5965
Sbjct	6025	.....	6084
Query	5966	AGCCTCCAGCGGGAGGGTGGTTGGCAGAGTCAAAGTAGGGAAGAATGAAGAGTCTAAACC	6025
Sbjct	6085	.....	6144
Query	6026	TACAAAAATAATGAGTGGGAATCCAGACCGTCTCAAAAAACACAGCAGACCTGACCGAGAT	6085
Sbjct	6145	.....	6204
Query	6086	GGTCAAGAAGATAACCAGCATGAACAGGGGAGACTTCAAGCAGATTACTTTGGCAACAGG	6145
Sbjct	6205	.....	6264
Query	6146	G-CAGGCAAAACCACAGAAGCTCCCAAAAGCAGTTATAGAGGAGATAGGAAGACACAAGAG	6204
Sbjct	6265	.G.....	6324
Query	6205	AGTATTAGTTCTTATACCATTAAGGGCAGCGGCAGAGTCAGTCTACCAGTATATGAGATT	6264
Sbjct	6325	.....	6384
Query	6265	GAAACACCCAAGCATCTCTTTTAACCTAAGGATAGGGGACATGAAAGAGGGGGACATGGC	6324
Sbjct	6385	.....	6444
Query	6325	AACCGGGATAACCTATGCATCATACGGGTACTTCTGCCAAATGCCTCAACCAAAGCTCAG	6384
Sbjct	6445	.....	6504
Query	6385	AGCTGCTATGGTAGAATACTCATACATATTCTTAGATGAATACCATTGTGCCACTCCTGA	6444
Sbjct	6505	.....	6564
Query	6445	ACAACCTGGCAATTATCGGGAAGATCCACAGATTTTCAGAGAGTATAAGGGTTGTCGCCAT	6504
Sbjct	6565	.....	6624
Query	6505	GACTGCCACGCCAGCAGGGTCGGTGACCACAACAGGTCAAAGCACCCAATAGAGGAATT	6564
Sbjct	6625	.....	6684
Query	6565	CATAGCCCCCGAGGTAATGAAAGGGGAGGATCTTGGTAGTCAGTTCCTTGATATAGCAGG	6624
Sbjct	6685	.....	6744
Query	6625	GTTAAAAATACCAAGTGGATGAGATGAAAGGCAATATGTTGGTTTTTGTACCAACGAGAAA	6684
Sbjct	6745	.....	6804
Query	6685	CATGGCAGTAGAGGTAGCAAAGAAGCTAAAAGCTAAGGGCTATAACTCTGGATACTATTA	6744
Sbjct	6805	.....	6864
Query	6745	CAGTGGAGAGGATCCAGCCAATCTGAGAGTTGTGACATCACAATCCCCCTATGTAATCGT	6804
Sbjct	6865	.....	6924
Query	6805	GGCTACAAATGCTATTGAATCAGGAGTGACACTACCAGATTTGGACACGGTTATAGACAC	6864
Sbjct	6925	.....	6984
Query	6865	GGGGTTGAAATGTGAAAAGAGGGTGAGGGTATCATCAAAGATACCCTTCATCGTAACAGG	6924
Sbjct	6985	.....	7044
Query	6925	CCTTAAGAGGATGGCCGTGACTGTGGGTGAGCAGGCGCAGCGTAGGGGCAGAGTAGGTAG	6984
Sbjct	7045	.....	7104
Query	6985	AGTGAAACCCGGGAGGTATTATAGGAGCCAGGAAACAGCAACAGGGTCAAAGGACTACCA	7044
Sbjct	7105	.....	7164
Query	7045	CTATGACCTCTTGCAGGCACAAAGATACGGGATTGAGGATGGAATCAACGTGACGAAATC	7104
Sbjct	7165	.....	7224
Query	7105	CTTTAGGGAGATGAATTACGATTGGAGCCTATACGAGGAGGACAGCCTACTAATAACCCA	7164

Sbjct	7225	.....	7284
Query	7165	GCTGGAAATACTAAATAATCTACTCATCTCAGAAGACTTGCCAGCCGCTGTTAAGAACAT	7224
Sbjct	7285	.....	7344
Query	7225	AATGGCCAGGACTGATCACCCAGAGCCAATCCAACCTTGCATACAACAGCTATGAAGTCCA	7284
Sbjct	7345	.....	7404
Query	7285	GGTCCCGGTCTTATTTCCCAAAAATAAGGAATGGAGAAGTCACAGACACCTACGAAAATTA	7344
Sbjct	7405	.....G.....	7464
Query	7345	CTCGTTTCTAAATGCCAGAAAGTTAGGGGAGGATGTGCCCGTGTATATCTACGCTACTGA	7404
Sbjct	7465	.....	7524
Query	7405	AGATGAGGATCTGGCAGTTGACCTCTTAGGGCTAGACTGGCCTGATCCTGGGAACCAGCA	7464
Sbjct	7525	.....	7584
Query	7465	GGTAGTGGAGACTGGTAAAGCACTGAAGCAAGTGACCGGGTTGTCCTCGGCTGAAAATGC	7524
Sbjct	7585	.....	7644
Query	7525	CCTACTAGTGGCTTTATTTGGGTATGTGGGTACCAGGCTCTCTCAAAGAGGCATGTCCC	7584
Sbjct	7645	.....	7704
Query	7585	AATGATAACAGACATATATACCATCGAGGACCAGAGACTAGAAGACACCACCCACCTCCA	7644
Sbjct	7705	.....	7764
Query	7645	GTATGCACCCAACGCCATAAAAACCGATGGGACAGAGACTGAACTGAAAGAACTGGCGTC	7704
Sbjct	7765	.....	7824
Query	7705	GGGTGACGTGGAAAAAATCATGGGAGCCATTTAGATTATGCAGCTGGGGGACTGGAGTT	7764
Sbjct	7825	.....	7884
Query	7765	TGTTAAATCCCAAGCAGAAAAGATAAAAACAGCTCCTTTGTTTAAAGAAAACGCAGAAGC	7824
Sbjct	7885	.....	7944
Query	7825	CGCAAAAGGGTATGTCCAAAAATTCATTGACTCATTAATTGAAAATAAAGAAGAAATAAT	7884
Sbjct	7945	.....	8004
Query	7885	CAGATATGGTTTGTGGGGAACACACACAGCACATACAAAAGCATAGCTGCAAGACTGGG	7944
Sbjct	8005	.....	8064
Query	7945	GCATGAAACAGCGTTTGCCACACTAGTGTTAAAGTGGCTAGCTTTTGGAGGGGAATCAGT	8004
Sbjct	8065	.....	8124
Query	8005	GTCAGACCACGTCAAGCAGGCGGCAGTTGATTTAGTGGTCTATTATGTGATGAATAAGCC	8064
Sbjct	8125	.....	8184
Query	8065	TTCTTCCCAGGTGACTCCGAGACACAGCAAGAAGGGAGGCGATTTCGTCGCAAGCCTGTT	8124
Sbjct	8185	.....	8244
Query	8125	CATCTCCGCACTGGCAACCTACACATACAAAACCTTGAATTAACCACAATCTCTCTAAAGT	8184
Sbjct	8245	.....	8304
Query	8185	GGTGAAC-AGCCCTGGCTTACCTCCCCATATGCTACCAGCGCATTAATAATGTTACCCCC	8243
Sbjct	8305	.....C.....	8364
Query	8244	AACGCGGCTGGAGAGCGTGGTGATACTGAGCACCACGATATATAAAACATACCTCTCTAT	8303
Sbjct	8365	.....	8424
Query	8304	AAGGAAGGGGAAGAGTGATGGATTGCTGGGTACGGGGATAAGTGCAGCCATGGAAATCCT	8363
Sbjct	8425	.....	8484
Query	8364	GTCACAAAACCCAGTATCGGTAGGTATATCTGTGATGTTGGGGGTAGGGGCAATCGCTGC	8423

Sbjct	8485	.....	8544
Query	8424	GCACAACGCTATTGAGTCCAGTGAACAGAAAAGGACCCCTACTTATGAAGGTGTTTGTAAA	8483
Sbjct	8545	.....	8604
Query	8484	GAACTTCTTGGATCAGGCTGCAACAGATGAGCTGGTAAAAGAAAACCCAGAAAAAATTAT	8543
Sbjct	8605	.....	8664
Query	8544	AATGGCCTTATTTGAAGCAGTCCAGACAATTGGTAACCCCTGAGACTAATATACCACCT	8603
Sbjct	8665	.....	8724
Query	8604	GTATGGGGTTTACTACAAAGGTGGGAGGCCAAGGAACCTATCTGAGAGGACAGCAGGCAG	8663
Sbjct	8725	.....	8784
Query	8664	AAACTTATTCACATTGATAATGTTTGAAGCCTTCGAGTTATTAGGGATGGACTCACAAGG	8723
Sbjct	8785	.....	8844
Query	8724	GAAAATAAGGAACCTGTCCGGAATTACATTTTGGATTTGATATACGGCCTACACAAGCA	8783
Sbjct	8845	.....	8904
Query	8784	AATCAACAGAGGGCTGAAGAAAATGGTACTGGGGTGGGCCCCGTCACCCCTTTAGTTGTGA	8843
Sbjct	8905	.....	8964
Query	8844	CTGGACCCCTAGTGACGAGAGGATCAGATTGCCAACAGACAAC'TATTTGAGGGTAGAAAC	8903
Sbjct	8965	.....	9024
Query	8904	CAGGTGCCCATGTGGCTATGAGATGAAAGCTTTCAAAAATGTAGGTGGCAAAC'TACCAA	8963
Sbjct	9025	.....	9084
Query	8964	AGTGGAGGAGAGCGGGCCTTTCCTATGTAGAAACAGACCTGGTAGGGGACCAGTCAACTA	9023
Sbjct	9085	.....	9144
Query	9024	CAGAGTCACCAAGTATTACGATGACAACCTCAGAGAGATAAAACCAGTAGCAAAGTTGGA	9083
Sbjct	9145	.....	9204
Query	9084	AGGACAGGTAGAGCACTACTACAAAGGGGTACAGCAAAAATTGACTACAGTAAAGGAAA	9143
Sbjct	9205	.....	9264
Query	9144	AATGCTCTTGGCCACTGACAAGTGGGAGGTGGAACATGGTGTGATAACCAGGTTAGCTAA	9203
Sbjct	9265	.....	9324
Query	9204	GAGATATACTGGGGTCGGGTTCAATGGTGCATACCTAGGTGACGAGCCCAATCACCGTGC	9263
Sbjct	9325	.....	9384
Query	9264	TCTAGTGGAGAGGGACTGTGCAACTATAACCAAAAACACAGTACAGTTTCTAAAAATGAA	9323
Sbjct	9385	.....	9444
Query	9324	GAAGGGGTGTGCGTTCACCTATGACCTGACCATCTCCAATCTGACCAGGCTCATCGAACT	9383
Sbjct	9445	.....	9504
Query	9384	AGTACACAGGAACAATCTTGAAGAGAAGGAAATACCCACCGCTACGGTCACCACATGGCT	9443
Sbjct	9505	.....	9564
Query	9444	AGCTTACACCTTCGTGAATGAAGACGTAGGGACTATAAAACCAGTACTAGGAGAGAGAGT	9503
Sbjct	9565	.....	9624
Query	9504	AATCCCCGACCCTGTAGTTGATATCAATTTACAACCAGAGGTGCAAGTGGACACGTCAGA	9563
Sbjct	9625	.....	9684
Query	9564	GGTTGGGATCACAATAATTGGAAGGGAAACCCTGATGACAACGGGAGTGACACCTGTCTT	9623
Sbjct	9685	.....	9744
Query	9624	GGAAAAAGTAGAGCCTGACGCCAGCGACAACCAAAACTCGGTGAAGATCGGGTTGGATGA	9683

Sbjct	9745	.....	9804
Query	9684	GGGTAATTACCCAGGGCCTGGAATACAGACACATACACTAACAGAAGAAATACACAACAG	9743
Sbjct	9805	.....	9864
Query	9744	GGATGCGAGGCCCTTCATCATGATCCTGGGCTCAAGGAATTCCATATCAAATAGGGCAAA	9803
Sbjct	9865	.....	9924
Query	9804	GACTGCTAGAAATATAAATCTGTACACAGGAAATGACCCCAGGGAAATACGAGACTTGAT	9863
Sbjct	9925	.....	9984
Query	9864	GGCTGCAGGGCGCATGTTAGTAGTAGCACTGAGGGATGTCGACCCTGAGCTGTCTGAAAT	9923
Sbjct	9985	.....	10044
Query	9924	GGTCGATTTCAAGGGGACTTTTTTAGATAGGGAGGCCCTGGAGGCTCTAAGTCTCGGGCA	9983
Sbjct	10045	.....	10104
Query	9984	ACCTAAACCGAAGCAGGTTACCAAGGAAGCTGTTAGGAATTTGATAGAACAGAAAAAGA	10043
Sbjct	10105	.....	10164
Query	10044	TGTGGAGATCCCTAACTGGTTTGCATCAGATGACCCAGTATTTCTGGAAGTGGCCTTAAA	10103
Sbjct	10165	.....	10224
Query	10104	AAATGATAAGTACTACTTAGTAGGAGATGTTGGAGAGCTAAAAGATCAAGCTAAAGCACT	10163
Sbjct	10225	.....G.....	10284
Query	10164	TGGGGCCACGGATCAGACAAGAATTATAAAGGAGGTAGGCTCAAGGACGTATGCCATGAA	10223
Sbjct	10285	.....	10344
Query	10224	GCTATCTAGCTGGTTCC-CAAGGCATCAAACAAACAGATGAGTTTAACTCCACTGTTTGA	10282
Sbjct	10345	.....T.C.....	10404
Query	10283	GGAATTGTTGCTACGGTGCCACCTGCAACTAAGAGCAATAAGGGGCACATGGCATCAGC	10342
Sbjct	10405	.....	10464
Query	10343	TTACCAATTGGCACAGGGTAACTGGGAGCCCCTCGGTTGCGGGGTGCACCTAGGTACAAT	10402
Sbjct	10465	.....	10524
Query	10403	ACCAGCCAGAAGGGTGAAGATACACCCATATGAAGCTTACCTGAAGTTGAAAGATTTTAT	10462
Sbjct	10525	.....	10584
Query	10463	agaagaagaagagaagaaACCTAGGGTTAAGGATACAGTAATAAGAGAGCACACAACAAATG	10522
Sbjct	10585	.....	10644
Query	10523	GATACTTaaaaaaaTAAGGTTTCAAGGAAACCTCAACACCAAGAAAATGCTCAACCCAGG	10582
Sbjct	10645	.....T..	10704
Query	10583	GAAACTATCTGAACAGTTGGACAGGGAGGGGCGCAAGAGGAACATCTACAACCACCAGAT	10642
Sbjct	10705	.....	10764
Query	10643	TGGTACTATAATGTCAAGTGCAGGCATAAGGCTGGAGAAATTGCCAATAGTGAGGGCCCA	10702
Sbjct	10765	.....	10824
Query	10703	AACCGACACCAAAACCTTTTCATGAGGCAATAAGAGATAAGATAGACAAGAGTGAAAACCG	10762
Sbjct	10825	.....	10884
Query	10763	GCAAAATCCAGAATTGCACAACAAATTGTTGGAGATTTTCCACACGATAGCCCAACCCAC	10822
Sbjct	10885	.....	10944
Query	10823	CCTGAAACACACCTACGGTGAGGTGACGTGGGAGCAACTTGAGGCGGGGGTAAATAGAAA	10882
Sbjct	10945	.....A.....	11004
Query	10883	GGGGGCAGCAGGCTTCCTGGAGAAGAAGAACATCGGAGAAGTATTGGATTTCAGAAAAGCA	10942

Sbjct	11005	.....	11064
Query	10943	CCTGGTAGAACAATTGGTCAGGGATCTGAAGGCCGGGAGAAAGATAAAATATTATGAAAC	11002
Sbjct	11065	.....	11124
Query	11003	TGCAATACCAAAAAATGAGAAGAGAGATGTCAGTGATGACTGGCAGGCAGGGGACCTGGT	11062
Sbjct	11125	.....	11184
Query	11063	GGTTGAGAAGAGGCCAAGAGTTATCCAATACCCTGAAGCCAAGACAAGGCTAGCCATCAC	11122
Sbjct	11185	.....	11244
Query	11123	TAAGGTCATGTATAACTGGGTGAAACAGCAGCCCGTTGTGATTCCAGGATATGAAGGAAA	11182
Sbjct	11245	.....	11304
Query	11183	GACCCCTTGTTCACATCTTTGATAAAGTGAGAAAGGAATGGGACTCGTTCAATGAGCC	11242
Sbjct	11305	.....	11364
Query	11243	AGTGGCCGTAAGTTTTGACACCAAGCCTGGGACACTCAAGTGACTAGTAAGGATCTGCA	11302
Sbjct	11365	.....	11424
Query	11303	ACTTATTGGAGAAATCCAGAAATATTACTATAAGAAGGAGTGGCACAAGTTCATTGACAC	11362
Sbjct	11425	.....	11484
Query	11363	CATCACCGACCACATGACAGAAGTACCAGTTATAACAGCAGATGGTGAAGTATATATAAG	11422
Sbjct	11485	.....	11544
Query	11423	AAATGGGCAGAGAGGGAGCGGCCAGCCAGACACAAGTGCTGGCAACAGCATGTTAAATGT	11482
Sbjct	11545	.....	11604
Query	11483	CCTGACAATGATGTACGGCTTCTGCGAAAGCACAGGGGTACCGTACAAGAGTTTCAACAG	11542
Sbjct	11605	.....C	11664
Query	11543	GGTGGCAAGGATCCACGTCTGTGGGGATGATGGCTTCTTAATAACTGAAAAGGGTTAGG	11602
Sbjct	11665	.....	11724
Query	11603	GCTGAAATTTGCTAACAAGGGATGCAGATTCTTCATGAAGCAGGCAAACCTCAGAAGAT	11662
Sbjct	11725	.....	11784
Query	11663	AACGGAAGGGGAAAAGATGAAAGTTGCCATATAGATTTGAGGATATAGAGTTCTGTTCCTCA	11722
Sbjct	11785	.....	11844
Query	11723	TACCCAGTCCCTGTTAGGTGGTCCGACAACACCAGTAGTCACATGGCCGGGAGAGACAC	11782
Sbjct	11845	.....	11904
Query	11783	CGCTGTGATACTATCAAAGATGGCAACAAGATTGGATTCAAGTGGAGAGAGGGGTACCAC	11842
Sbjct	11905	.....	11964
Query	11843	AGCATATGAAAAGCGGTAGCCTTCAGTTTCTTGCTGATGTATTCTTGGAACCCGCTTGT	11902
Sbjct	11965	W	12024
Query	11903	TAGGAGGATTTGCCTGTTGGTCCTTTTCGCAACAGCCAGAGACAGACCCATCAAACATGC	11962
Sbjct	12025	.....	12084
Query	11963	CACTTATTATTACAAAGGTGATCCAATAGGGGCCATATAAAGATGTAATAGGTCGGAATCT	12022
Sbjct	12085	.....	12144
Query	12023	AAGTGAACCTGAAGAGAACAGGCTTTGAGAAATTGGCAAATCTAAACCTAAGCCTGTCCAC	12082
Sbjct	12145	.....	12204
Query	12083	GTTGGGGGTCTGGACTAAGCACACAAGCAAAAGAATAATTCAAGGACTGTGTTGCCATTGG	12142
Sbjct	12205	.....A	12264
Query	12143	GAAAGAAGAGGGCAACTGGCTAGTTAA-GCCCGACAGGCTGATATCCAGCAAACTGGCC	12201

Sbjct	12265	.....C.....	12323
Query	12202	ACTTATACATACCTGATAAAGGCTTTACATTACAAGGAAAGCATTATGAGCAACTGCAGC	12261
Sbjct	12324	.....	12383
Query	12262	TAAGAACAGAGACAAACCCGGTCATGGGG-TTGGGACTGAGAGATACAAGTTAGGTCCCA	12320
Sbjct	12384	.....G.....	12443
Query	12321	TAGTCAATCTGCTGCTGAGAAGGTTGAAAATTCTGCTCATGACGGCCGTCGGCGTCAGCA	12380
Sbjct	12444	.....	12503
Query	12381	GCTGAGACAAAATGTATATATTGTAAATAAATTAATCCATGTACATAGTGTATATAAATA	12440
Sbjct	12504	.....	12563
Query	12441	TAGTTGGGACCGTCCACCTCAAGAAGACGACACGCCCAACACGCACAGCTAAACAGTAGT	12500
Sbjct	12564	.....	12623
Query	12501	CAAGATTATCTACCTCAAGATAAACTACATTTAATGCACACAGCACTTTAGCTGTATGA	12560
Sbjct	12624	.....	12683
Query	12561	GGATACGCCCCGACGTCTATAGTTGGACTAGGGAAGACCTCTAACAGCCCCC	12611
Sbjct	12684	.....	12734

Score = 745 bits (403), Expect = 0.0
Identities = 405/406 (99%), Gaps = 0/406 (0%)
Strand=Plus/Plus

Query	1	GTATACGAGAATTAGAAAAGGCACTCGTATACGTATTGGGCAATTAAAAATAATAATTAG	60
Sbjct	1	.....	60
Query	61	GCCTAGGGAACAAATCCCTCTCAGCGAAGGCCGAAAAGAGGCTAGCCATGCCCTTAGTAG	120
Sbjct	61	.....	120
Query	121	GACTIONGATAATGAGGGGGGTAGCAACAGTGGTGAGTTCGTTGGATGGCTTAAGCCCTGA	180
Sbjct	121	.....	180
Query	181	GTACAGGGTAGTCGTCAGTGGTTCGACGCCTTGAATAAAGGTCTCGAGATGCCACGTGG	240
Sbjct	181	.....	240
Query	241	ACGAGGGCATGCCCCAAGCACATCTTAACCTGAGCGGGGGTCGCCCAGGTAAAAGCAGTT	300
Sbjct	241	.....	300
Query	301	TTAACCGACTGTTACGAATACAGCCTGATAGGGTGCTGCAGAGGCCCCTGTATTGCTAC	360
Sbjct	301	.....	360
Query	361	TAAAAATCTCTGCTGTACATGGCACATGGAGTTGATCACAAATGAA	406
Sbjct	361	.....A.....	406

> [gi|55724858|emb|AJ781045.1|](#) Bovine viral diarrhea virus partial PPP gene for pol
genomic RNA, strain NADL
Length=8712

Score = 1.573e+04 bits (8518), Expect = 0.0
Identities = 8666/8713 (99%), Gaps = 7/8713 (0%)
Strand=Plus/Plus

Query	3679	ATTGAAGTGGTGACATACTTCTTGCTGCTGTACCTACTGCTGAGGGAGGAGAGCGTAAAG	3738
Sbjct	1	.....A.....	60
Query	3739	AAGTGGGTCTTACTCTTATACCACATCTTAGTGGTACACCCAATCAAATCTGTAATTGTG	3798
Sbjct	61	.....G....C.....	120

Query	3799	ATCCTACTGATGATTGGGGATGTGGTAAAGGCCGATT	CAGGGGGCCAAGAGTACTTGGGG	3858
Sbjct	121	.....		180
Query	3859	AAAATAGACCTCTGTTTTACAACAGTAGTACTAATCGTCATAGGTTTAAATCATAGCCAGG		3918
Sbjct	181	C.....		240
Query	3919	CGTGACCCAACTATAGTGCCACTGGTAACAATAATGGCAGCACTGAGGGTCACTGAACTG		3978
Sbjct	241	.....T..		300
Query	3979	ACCCACCAGCCTGGAGTTGACATCGCTGTGGCGGTCATGACTATAACCCTACTGATGGTT		4038
Sbjct	301	.....		360
Query	4039	AGCTATGTGACAGATTATTTTAGATATAAAAAATGGTTACAGTGCATTCTCAGCCTGG-A		4097
Sbjct	361	.....T.		420
Query	4098	TCTGGGGTGTTCCTTGATAAGAAGCCTAATATACCTAGGTAGAATCGAGATGCCAGAGGTA		4157
Sbjct	421	.....		480
Query	4158	ACTATCCCAAACCTGGAGACCACTAACTTTAATACTATTATATTTGATCTCAACAACAATT		4217
Sbjct	481	.....C.....		540
Query	4218	GTAACGAGGTGGAAGGTTGACGTGGCTGGCCTATTGTTGCAATGTGTGCCTATCTTATTG		4277
Sbjct	541	.....		600
Query	4278	CTGGTCACAACCTTGTGGGCCGACTTCTTAACCCTAATACTGATCCTGCCTACCTATGAA		4337
Sbjct	601	.....		660
Query	4338	TTGGTTAAATTATACTATCTGAAAACGTGTAGGACTGATATAGAAAGAAGTTGGCTAGGG		4397
Sbjct	661	.....		720
Query	4398	GGGATAGACTATACAAGAGTTGACTCCATCTACGACGTTGATGAGAGTGGAGAGGGCGTA		4457
Sbjct	721	.....		780
Query	4458	TATCTTTTTCCATCAAGGCAGAAAGCACAGGGGAATTTTTCTATACTCTTGCCCTTATC		4517
Sbjct	781	.....TA.....		840
Query	4518	AAAGCAACACTGATAAGTTGCGTCAGCAGTAAATGGCAGCTAATATACATGAGTTACTTA		4577
Sbjct	841	.....		900
Query	4578	ACTTTGGACTTTATGTACTACATGCACAGGAAAGTTATAGAAGAGATCTCAGGAGGTACC		4637
Sbjct	901	.....		960
Query	4638	AACATAATATCCAGGTTAGTGGCAGCACTCATAGAGCTGAACGGTCCATGGAAGAAGAG		4697
Sbjct	961	.....G.....		1020
Query	4698	GAGAGCAAAGGCTTAAAGAAGTTTTATCTATTGTCTGGAAGGTTGAGAAACCTAATAATA		4757
Sbjct	1021	.....		1080
Query	4758	AAACATAAGGTAAGGAATGAGACCGTGGCTTCTTGGTACGGGGAGGAGGAAGTCTACGGT		4817
Sbjct	1081	.....A.....C		1140
Query	4818	ATGCCAAAGATCATGACTATAATCAAGGCCAGTACACTGAGTAAGAGCAGGCACTGCATA		4877
Sbjct	1141	.....		1200
Query	4878	ATATGCACTGTATGTGAGGGCCGAGAGTGGAAAGGTGGCACCTGCCCAAATGTGGACGC		4937
Sbjct	1201	.....		1260
Query	4938	CATGGGAAGCCGATAACGTGTGGGATGTCGCTAGCAGATTTCTGAAGAAAGACACTATAAA		4997
Sbjct	1261	.....T.....		1320
Query	4998	AGAATCTTTATAAGGGAAGGCAACTTTGAGGGTATGTGCAGCCGATGCCAGGGAAAGCAT		5057
Sbjct	1321	.....		1380

Query	5058	AGGAGGTTTGAATGGACCGGGAACCTAAGAGTGCCAGATACTGTGCTGAGTGTAATAGG	5117
Sbjct	1381	.....C.....	1440
Query	5118	CTGCATCCTGCTGAGGAAGGTGACTTTTGGGCAGAGTCGAGCATGTTGGGCCTCAAAATC	5177
Sbjct	1441	.....A.....	1500
Query	5178	ACCTACTTTGCGCTGATGGATGGAAAGGTGTATGATATCACAGAGTGGGCTGGATGCCAG	5237
Sbjct	1501	.....G.....	1560
Query	5238	CGTGTGGGAATCTCCCCAGATACCCACAGAGTCCCTTGTACATCTCATTTGGTTCACGG	5297
Sbjct	1561	.....A.....	1620
Query	5298	ATGCCTTTTCAGGCAGGAATACAATGGCTTTGTACAATATACCGCTAGGGGGCAACTATTT	5357
Sbjct	1621	.....	1680
Query	5358	CTGAGAAACTTGCCCGTACTGGCAACTAAAGTAAAAATGCTCATGGTAGGCAACCTTGGA	5417
Sbjct	1681	.....	1740
Query	5418	GAAGAAATTGGTAATCTGGAACATCTTGGGTGGATCCTAAGGGGGCCTGCCGTGTGTAAG	5477
Sbjct	1741	.....	1800
Query	5478	AAGATCACAGAGCACGAAAAATGCCACATTAATATACTGGATAAACTAACCGCATTTTTTC	5537
Sbjct	1801	.....	1860
Query	5538	GGGATCATGCCAAGGGGGACTACACCCAGAGCCCCGGTGAGGTTCCTACGAGCTTACTA	5597
Sbjct	1861	.....	1920
Query	5598	AAAGTGAGGAGGGGTCTGGAGACTGGCTGGGCTTACACACACCAAGGCGGGATAAGTTCA	5657
Sbjct	1921	.....	1980
Query	5658	GTCGACCATGTAACCGCCGGAAGATCTACTGGTCTGTGACAGCATGGGACGAACTAGA	5717
Sbjct	1981	.....	2040
Query	5718	GTGGTTTGCCAAAGCAACAACAGGTTGACCGATGAGACAGAGTATGGCGTCAAGACTGAC	5777
Sbjct	2041	.....	2100
Query	5778	TCAGGGTGCCCAGACGGTGCCAGATGTTATGTGTTAAATCCAGAGGCCGTTAACATATCA	5837
Sbjct	2101	.....	2160
Query	5838	GGATCCAAAGGGGCAGTCGTTACCTCCAAAAGACAGGTGGAGAATTCACGTGTGTCACC	5897
Sbjct	2161	.....	2220
Query	5898	GCATCAGGCACACCGGCTTTCTTCGACCTAAAAAACTTGAAAGGATGGTCAGGCTTGCCT	5957
Sbjct	2221	.....	2280
Query	5958	ATATTTGAAGCCTCCAGCGGGAGGGTGGTTGGCAGAGTCAAAGTAGGGAAGAATGAAGAG	6017
Sbjct	2281	.....	2340
Query	6018	TCTAAACCTACAAAAATAATGAGTGGAATCCAGACCGTCTCAAAAAACACAGCAGACCTG	6077
Sbjct	2341	.....	2400
Query	6078	ACCGAGATGGTCAAGAAGATAACCAGCATGAACAGGGGAGACTTCAAGCAGATTACTTTG	6137
Sbjct	2401	.....C...	2460
Query	6138	GCAACAGGG-CAGGCAAAACACAGAACTCCCAAAAGCAGTTATAGAGGAGATAGGAAGA	6196
Sbjct	2461	.....G.....	2520
Query	6197	CACAAGAGAGTATTAGTTCTTATACCATTAAAGGGCAGCGGCAGAGTCAGTCTACCAGTAT	6256
Sbjct	2521	.....C.....	2580
Query	6257	ATGAGATTGAAACACCCAAGCATCTCTTTTAACCTAAGGATAGGGGACATGAAAGAGGGG	6316
Sbjct	2581	.....	2640

Query	6317	GACATGGCAACCGGGATAACCTATGCATCATACGGGTACTTCTGCCAAATGCCTCAACCA	6376
Sbjct	2641	.....	2700
Query	6377	AAGCTCAGAGCTGCTATGGTAGAATACTCATACATATTCTTAGATGAATACCATTTGTGCC	6436
Sbjct	2701	.....	2760
Query	6437	ACTCCTGAACAACTGGCAATTATCGGGAAGATCCACAGATTTTCAGAGAGTATAAGGGTT	6496
Sbjct	2761	.....	2820
Query	6497	GTCGCCATGACTGCCACGCCAGCAGGGTCGGTGACCACAACAGGTCAAAGCACCCAATA	6556
Sbjct	2821	.....	2880
Query	6557	GAGGAATTTCATAGCCCCGAGGTAATGAAAGGGGAGGATCTTGGTAGTCAGTTCCTTGAT	6616
Sbjct	2881	.....	2940
Query	6617	ATAGCAGGGTTAAAAATACCAGTGGATGAGATGAAAGGCAATATGTTGGTTTTTGTACCA	6676
Sbjct	2941	.....	3000
Query	6677	ACGAGAAACATGGCAGTAGAGGTAGCAAAGAAGCTAAAAGCTAAGGGCTATAACTCTGGA	6736
Sbjct	3001	.....	3060
Query	6737	TACTATTACAGTGGAGAGGATCCAGCCAATCTGAGAGTTGTGACATCACAATCCCCCTAT	6796
Sbjct	3061	.....	3120
Query	6797	GTAATCGTGGCTACAAATGCTATTGAATCAGGAGTGACACTACCAGATTTGGACACGGTT	6856
Sbjct	3121	.....	3180
Query	6857	ATAGACACGGGGTTGAAATGTGAAAAGAGGGTGAGGGTATCATCAAAGATACCCCTTCATC	6916
Sbjct	3181	.....G	3240
Query	6917	GTAACAGGCCTTAAGAGGATGGCCGTGACTGTGGGTGAGCAGGCGCAGCGTAGGGGCAGA	6976
Sbjct	3241	.....	3300
Query	6977	GTAGGTAGAGTGAAACCCGGGAGGTATTATAGGAGCCAGGAAACAGCAACAGGGTCAAAG	7036
Sbjct	3301	.....	3360
Query	7037	GACTACCACATATGACCTCTTGCAGGCACAAAGATACGGGATTGAGGATGGAATCAACGTG	7096
Sbjct	3361	.....	3420
Query	7097	ACGAAATCCTTTATAGGAGATGAATTACGATTGGAGCCTATACGAGGAGGACAGCCTACTA	7156
Sbjct	3421	.....	3480
Query	7157	ATAACCCAGCTGGAATACTAAATAATCTACTCATCTCAGAAGACTTGCCAGCCGCTGTT	7216
Sbjct	3481	.....	3540
Query	7217	AAGAACATAATGGCCAGGACTGATCACCCAGAGCCAATCCAAC TTGCATACAACAGCTAT	7276
Sbjct	3541	.....	3600
Query	7277	GAAGTCCAGGTCCCGTCTATTCCCAAAAATAAGGAATGGAGAAGTCACAGACACCTAC	7336
Sbjct	3601	.....G	3660
Query	7337	GAAAT TACTCGTTTCTAAATGCCAGAAAGTTAGGGGAGGATGTGCCCGTGATATCTAC	7396
Sbjct	3661	.....	3720
Query	7397	GCTACTGAAGATGAGGATCTGGCAGTTGACCTCTTAGGGCTAGACTGGCCTGATCCTGGG	7456
Sbjct	3721	.....	3780
Query	7457	AACCAGCAGGTAGTGGAGACTGGTAAAGCACTGAAGCAAGTGACCGGGTTGTCCTCGGCT	7516
Sbjct	3781	.....	3840
Query	7517	GAAATGCCCTACTAGTGGCTTTATTTGGGTATGTGGGT TACCAGGCTCTCTCAAAGAGG	7576
Sbjct	3841	.....	3900

Query	7577	CATGTCCCAATGATAACAGACATATATACCATCGAGGACCAGAGACTAGAAGACACCACC	7636
Sbjct	3901	.....	3960
Query	7637	CACCTCCAGTATGCACCCAACGCCATAAAAACCGATGGGACAGAGACTGAACTGAAAGAA	7696
Sbjct	3961	.....	4020
Query	7697	CTGGCGTCGGGTGACGTGGAAAAAATCATGGGAGCCATTTTCTAGATTATGCAGCTGGGGGA	7756
Sbjct	4021	.....	4080
Query	7757	CTGGAGTTTGTAAATCCCAAGCAGAAAAGATAAAAACAGCTCCTTTGTTTAAAGAAAAC	7816
Sbjct	4081	.....	4140
Query	7817	GCAGAAGCCGCAAAAGGGTATGTCCAAAAATTCTTTGACTCATTAATTGAAAATAAAGAA	7876
Sbjct	4141	.T.....T.....	4200
Query	7877	GAAATAATCAGATATGGTTTGTGGGGAACACACACAGCACTATACAAAAGCATAGCTGCA	7936
Sbjct	4201	.....	4260
Query	7937	AGACTGGGGCATGAAACAGCGTTTGCCACACTAGTGTTAAAGTGGCTAGCTTTTGGAGGG	7996
Sbjct	4261	.....	4320
Query	7997	GAATCAGTGTCTAGACCACGTCAAGCAGGCGGCAGTTGATTTAGTGGTCTATTATGTGATG	8056
Sbjct	4321	.....	4380
Query	8057	AATAAGCCTTCCTTCCCAGGTGACTCCGAGACACAGCAAGAAGGGAGGCGATTTCGTCGCA	8116
Sbjct	4381	.....	4440
Query	8117	AGCCTGTTTCATCTCCGCACTGGCAACCTACACATACAAAACCTTGAATTACCACAATCTC	8176
Sbjct	4441	.....G.....	4500
Query	8177	TCTAAAGTGGTGGAAAC-AGCCCTGGCTTACCTCCCCTATGCTACCAGCGCATTAATAATG	8235
Sbjct	4501	.....C.....	4560
Query	8236	TTCACCCCAACGCGGCTGGAGAGCGTGGTGATACTGAGCACCACGATATATAAAACATAC	8295
Sbjct	4561	.....	4620
Query	8296	CTCTCTATAAGGAAGGGGAAGAGTGATGGATTGCTGGGTACGGGGATAAGTGCAGCCATG	8355
Sbjct	4621	.....	4680
Query	8356	GAAATCCTGTACAAAACCCAGTATCGGTAGGTATATCTGTGATGTTGGGGGTAGGGGCA	8415
Sbjct	4681	.....	4740
Query	8416	ATCGCTGCGCACAAACGCTATTGAGTCCAGTGAACAGAAAAGGACCCTACTTATGAAGGTG	8475
Sbjct	4741	.....	4800
Query	8476	TTTGTAAAGAACTTCTTGGATCAGGCTGCAACAGATGAGCTGGTAAAAGAAAACCCAGAA	8535
Sbjct	4801	.....	4860
Query	8536	AAAATTATAATGGCCTTATTTGAAGCAGTCCAGACAATTGGTAACCCCTGAGACTAATA	8595
Sbjct	4861	.....	4920
Query	8596	TACCACCTGTATGGGGTTTACTACAAAGGTGGGAGGCCAAGGAACCTATCTGAGAGGACA	8655
Sbjct	4921	.....	4980
Query	8656	GCAGGCAGAAACTTATTACATTGATAATGTTTGAAGCCTTCGAGTTATTAGGGATGGAC	8715
Sbjct	4981	.....	5040
Query	8716	TCACAAGGGAAAATAAGGAACCTGTCCGGAATTACATTTTGGATTTGATATACGGCCTA	8775
Sbjct	5041	.....T.....	5100
Query	8776	CACAAGCAAATCAACAGAGGGCTGAAGAAAATGGTACTGGGGTGGGCCCCCTGCACCCTTT	8835
Sbjct	5101	.....	5160

Query	8836	AGTTGTGACTGGACCCCTAGTGACGAGAGGATCAGATTGCCAACAGACAACCTATTTGAGG	8895
Sbjct	5161	.....	5220
Query	8896	GTAGAAACCAGGTGCCCATGTGGCTATGAGATGAAAGCTTTCAAAAATGTAGGTGGCAAA	8955
Sbjct	5221	.....	5280
Query	8956	CTTACCAAAGTGGAGGAGAGCGGGCCTTTCCTATGTAGAAACAGACCTGGTAGGGGACCA	9015
Sbjct	5281	.....	5340
Query	9016	GTCAACTACAGAGTCACCAAGTATTACGATGACAACCTCAGAGAGATAAAACCAGTAGCA	9075
Sbjct	5341	.....	5400
Query	9076	AAGTTGGAAGGACAGGTAGAGCACTACTACAAAGGGGTACAGCAAAAATTGACTACAGT	9135
Sbjct	5401	.....	5460
Query	9136	AAAGGAAAAATGCTCTTGGCCACTGACAAGTGGGAGGTGGAACATGGTGTCTATAACCAGG	9195
Sbjct	5461	.....	5520
Query	9196	TTAGCTAAGAGATATACTGGGGTCGGGTTCATGGTGCATACTTAGGTGACGAGCCCAAT	9255
Sbjct	5521	.....	5580
Query	9256	CACCGTGCTCTAGTGGAGAGGGACTGTGCAACTATAACCAAAAACACAGTACAGTTTCTA	9315
Sbjct	5581	.....	5640
Query	9316	AAAATGAAGAAGGGGTGTGCGTTCACCTATGACCTGACCATCTCCAATCTGACCAGGCTC	9375
Sbjct	5641	.....	5700
Query	9376	ATCGAACTAGTACACAGGAACAATCTTGAAGAGAAGGAAATACCCACCGCTACGGTCACC	9435
Sbjct	5701	.....	5760
Query	9436	ACATGGCTAGCTTACACCTTCGTGAATGAAGACGTAGGGACTATAAAACCAGTACTAGGA	9495
Sbjct	5761	.....	5820
Query	9496	GAGAGAGTAATCCCCGACCCTGTAGTTGATATCAATTTACAACCAGAGGTGCAAGTGGAC	9555
Sbjct	5821	.....	5880
Query	9556	ACGTCAGAGGTTGGGATCACAATAATTGGAAGGGAAACCCTGATGACAACGGGAGTGACA	9615
Sbjct	5881	.....G.....	5940
Query	9616	CCTGTCTTGAAAAAGTAGAGCCTGACGCCAGCGACAACCAAACTCGGTGAAGATCGGG	9675
Sbjct	5941	.....	6000
Query	9676	TTGGATGAGGGTAATTACCCAGGGCCTGGAATACAGACACATACACTAACAGAAGAAATA	9735
Sbjct	6001	.....	6060
Query	9736	CACAACAGGGATGCGAGGGCCCTTCATCATGATCCTGGGCTCAAGGAATTCATATCAAAT	9795
Sbjct	6061	.....	6120
Query	9796	AGGGCAAAGACTGCTAGAAATATAAATCTGTACACAGGAAATGACCCCAGGGAAATACGA	9855
Sbjct	6121	.....	6180
Query	9856	GACTTGATGGCTGCAGGGCGCATGTTAGTAGTAGCACTGAGGGATGTCGACCCTGAGCTG	9915
Sbjct	6181	.....	6240
Query	9916	TCTGAAATGGTCGATTTCAAGGGGACTTTTTTTAGATAGGGAGGCCCTGGAGGCTCTAAGT	9975
Sbjct	6241	.....	6300
Query	9976	CTCGGGCAACCTAAACCGAAGCAGGTACCAAGGAAGCTGTTAGGAATTTGATAGAACAG	10035
Sbjct	6301	.....	6360
Query	10036	AAAAAAGATGTGGAGATCCCTAACTGGTTTGCATCAGATGACCCAGTATTTCTGGAAGTG	10095
Sbjct	6361	.....	6420

Query	10096	GCCTTAAAAAATGATAAGTACTACTTAGTAGGAGATGTTGGAGAGCTAAAAGATCAAGCT	10155
Sbjct	6421	.....G.....	6480
Query	10156	AAAGCACTTGGGGCCACGGATCAGACAAGAATTATAAAGGAGGTAGGCTCAAGGACGTAT	10215
Sbjct	6481	.....	6540
Query	10216	GCCATGAAGCTATCTAGCTGGTTCC-CAAGGCATCAAACAAACAGATGAGTTTAACTCCA	10274
Sbjct	6541	.....T.C.....	6600
Query	10275	CTGTTTGAGGAATTGTTGCTACGGTGCCACCTGCAACTAAGAGCAATAAGGGGCACATG	10334
Sbjct	6601	.....	6660
Query	10335	GCATCAGCTTACCAATTGGCACAGGGTAACTGGGAGCCCCTCGGTTGCGGGGTGCACCTA	10394
Sbjct	6661	.....	6720
Query	10395	GGTACAATACCAGCCAGAAGGGTGAAGATACACCCATATGAAGCTTACCTGAAGTTGAAA	10454
Sbjct	6721	.....	6780
Query	10455	GATTTTCATagaagaagaagagaagaaACCTAGGGTTAAGGATACAGTAATAAGAGAGCAC	10514
Sbjct	6781	.....	6840
Query	10515	AACAAATGGATACTTaaaaaaaTAAGGTTTCAAGGAAACCTCAACACCAAGAAAATGCTC	10574
Sbjct	6841	.....	6900 \
Query	10575	AACCCAGGGAAACTATCTGAACAGTTGGACAGGGAGGGGCGCAAGAGGAACATCTACAAC	10634
Sbjct	6901	.....T.....	6960
Query	10635	CACCAGATTGGTACTATAATGTCAAGTGCAGGCATAAGGCTGGAGAAATTGCCAATAGTG	10694
Sbjct	6961	.....	7020
Query	10695	AGGGCCCCAAACCGACACCAAAACCTTTCATGAGGCAATAAGAGATAAGATAGACAAGAGT	10754
Sbjct	7021	.....A.....	7080
Query	10755	GAAAACCGGCAAAATCCAGAATTGCACAACAAATTGTTGGAGATTTCCACACGATAGCC	10814
Sbjct	7081	.....	7140
Query	10815	CAACCCACCCTGAAACACACCTACGGTGAGGTGACGTGGGAGCAACTTGAGGCGGGGGTA	10874
Sbjct	7141	.....G.....A..	7200
Query	10875	AATAGAAAGGGGCGAGCAGGCTTCTGGAGAAGAAGAACATCGGAGAAGTATTGGATTCA	10934
Sbjct	7201	.....	7260
Query	10935	GAAAAGCACCTGGTAGAACAATTGGTCAGGGATCTGAAGGCCGGGAGAAAGATAAAATAT	10994
Sbjct	7261	.....	7320
Query	10995	TATGAAACTGCAATACCAAAAAATGAGAAGAGAGATGTCAGTGATGACTGGCAGGCAGGG	11054
Sbjct	7321	.....	7380
Query	11055	GACCTGGTGGTTGAGAAGAGGCCAAGAGTTATCCAATACCCTGAAGCCAAGACAAGGCTA	11114
Sbjct	7381	.....A.....	7440
Query	11115	GCCATCACTAAGGTCATGTATAACTGGGTGAAACAGCAGCCCGTTGTGATTCCAGGATAT	11174
Sbjct	7441	.....	7500
Query	11175	GAAGGAAAGACCCCTTGTTCACATCTTTGATAAAGTGAGAAAGGAATGGGACTCGTTC	11234
Sbjct	7501	.....G.....T....	7560
Query	11235	AATGAGCCAGTGGCCGTAAGTTTTGACACCAAAGCCTGGGACACTCAAGTACTAGTAAG	11294
Sbjct	7561	.....	7620
Query	11295	GATCTGCAACTTATTGGAGAAATCCAGAAATATTACTATAAGAAGGAGTGGCACAAGTTC	11354
Sbjct	7621	.....	7680

Query	11355	ATTGACACCATCACCGACCACATGACAGAAGTACCAGTTATAACAGCAGATGGTGAAGTA	11414
Sbjct	7681	.....A ..	7740
Query	11415	TATATAAGAAATGGGCAGAGAGGGAGCGGCCAGCCAGACACAAGTGCTGGCAACAGCATG	11474
Sbjct	7741	.....	7800
Query	11475	TTAAATGTCCTGACAATGATGTACGGCTTCTGCGAAAGCACAGGGGTACCGTACAAGAGT	11534
Sbjct	7801	.....C	7860
Query	11535	TTCAACAGGGTGGCAAGGATCCACGTCTGTGGGGATGATGGCTTCTTAATAACTGAAAAA	11594
Sbjct	7861	.....	7920
Query	11595	GGGTTAGGGCTGAAATTTGCTAACAAGGGATGCAGATTCTTCATGAAGCAGGCAAACCT	11654
Sbjct	7921	.....	7980
Query	11655	CAGAAGATAACGGAAGGGGAAAAGATGAAAGTTGCCTATAGATTTGAGGATATAGAGTTC	11714
Sbjct	7981	.....	8040
Query	11715	TGTTCTCATACCCAGTCCCTGTTAGGTGGTCCGACAACACCAGTAGTCACATGGCCGGG	11774
Sbjct	8041	.....	8100
Query	11775	AGAGACACCGCTGTGATACTATCAAAGATGGCAACAAGATTGGATTCAAGTGGAGAGAGG	11834
Sbjct	8101	.....	8160
Query	11835	GGTACCACAGCATATGAAAAAGCGGTAGCCTTCAGTTTCTTGCTGATGTATTCCTGGAAC	11894
Sbjct	8161	.....	8220
Query	11895	CCGCTTGTTAGGAGGATTTGCCTGTTGGTCCTTTCGCAACAGCCAGAGACAGACCCATCA	11954
Sbjct	8221	.....	8280
Query	11955	AAACATGCCACTTATTATTACAAAGGTGATCCAATAGGGGCCTATAAAGATGTAATAGGT	12014
Sbjct	8281	.....G	8340
Query	12015	CGGAATCTAAGTGAAGTGAAGAGAACAGGCTTTGAGAAATTGGCAAATCTAAACCTAAGC	12074
Sbjct	8341	.....A	8400
Query	12075	CTGTCCACGTTGGGGGTCTGGACTAAGCACACAAGCAAAAGAATAATTAGGACTGTGTT	12134
Sbjct	8401	.....A	8460
Query	12135	GCCATTGGGAAAGAAGAGGGCAACTGGCTAGTTAA-GCCCGACAGGCTGATATCCAGCAA	12193
Sbjct	8461	.....C ...-	8519
Query	12194	AACTGGCCACTTATACATACCTGATAAAGGCTTTACATTACAAGGAAAGCATTATGAGCA	12253
Sbjct	8520	.....	8579
Query	12254	ACTGCAGCTAAGAACAGAGACAAACCCGGTCATGGGG-TTGGGACTGAGAGATACAAGTT	12312
Sbjct	8580	.....G	8639
Query	12313	AGGTCCCATAGTCAATCTGCTGCTGAGAAGGTTGAAAATTCTGCTCATGACGGCCGTCGG	12372
Sbjct	8640	.....	8699
Query	12373	CGTCAGCAGCTGA	12385
Sbjct	8700	G	8712

>  gi|7960755|emb|AJ133739.1|BVI133739  Bovine viral diarrhea virus complete RNA g
isolate NADL
Length=12308

Score = 1.333e+04 bits (7218), Expect = 0.0
Identities = 7301/7316 (99%), Gaps = 6/7316 (0%)
Strand=Plus/Plus

Query	5301	CCTTTCAGGCAGGAATACAATGGCTTTGTACAATATACCGCTAGGGGGCAACTATTTCTG	5360
Sbjct	4994	.....	5053
Query	5361	AGAAACTTGCCCGTACTGGCAACTAAAGTAAAAATGCTCATGGTAGGCAACCTTGGAGAA	5420
Sbjct	5054	.....	5113
Query	5421	GAAATTGGTAATCTGGAACATCTGGGTGGATCCTAAGGGGGCCTGCCGTGTGTAAGAAG	5480
Sbjct	5114	.....	5173
Query	5481	ATCACAGAGCACGAAAAATGCCACATTAATATACTGGATAAACTAACCGCATTTTTTCGGG	5540
Sbjct	5174	.....	5233
Query	5541	ATCATGCCAAGGGGGACTACACCCAGAGCCCCGGTGAGGTTCCCTACGAGCTTACTAAAA	5600
Sbjct	5234	.....	5293
Query	5601	GTGAGGAGGGGTCTGGAGACTGGCTGGGCTTACACACACCAAGGCGGGATAAGTTCAGTC	5660
Sbjct	5294	.....	5353
Query	5661	GACCATGTAACCGCCGGAAGATCTACTGGTCTGTGACAGCATGGGACGAACTAGAGTG	5720
Sbjct	5354	.....	5413
Query	5721	GTTTGCCAAAGCAACAACAGGTTGACCGATGAGACAGAGTATGGCGTCAAGACTGACTCA	5780
Sbjct	5414	.....	5473
Query	5781	GGGTGCCCAGACGGTGCCAGATGTTATGTGTTAAATCCAGAGGCCGTTAACATATCAGGA	5840
Sbjct	5474	.....	5533
Query	5841	TCCAAAGGGGCAGTCGTTTACCCTCCAAAAGACAGGTGGAGAATTACAGTGTGTCACCGCA	5900
Sbjct	5534	.....	5593
Query	5901	TCAGGCACACCGGCTTTCTTCGACCTAAAAAAGCTTGAAGGATGGTCAGGCTTGCCTATA	5960
Sbjct	5594	.....	5653
Query	5961	TTTGAAGCCTCCAGCGGGAGGGTGGTTGGCAGAGTCAAAGTAGGGAAGAATGAAGAGTCT	6020
Sbjct	5654	.....	5713
Query	6021	AAACCTACAAAAATAATGAGTGGAATCCAGACCGTCTCAAAAAACACAGCAGACCTGACC	6080
Sbjct	5714	.....	5773
Query	6081	GAGATGGTCAAGAAGATAACCAGCATGAACAGGGGAGACTTCAAGCAGATTACTTTGGCA	6140
Sbjct	5774	.....	5833
Query	6141	ACAGGG-CAGGCAAAACCACAGAACTCCCAAAAGCAGTTATAGAGGAGATAGGAAGACAC	6199
Sbjct	5834	.....G.....	5893
Query	6200	AAGAGAGTATTAGTTCTTATACCATTAAGGGCAGCGGCAGAGTCAGTCTACCAGTATATG	6259
Sbjct	5894	.....	5953
Query	6260	AGATTGAAACACCCAAGCATCTCTTTTAACCTAAGGATAGGGGACATGAAAGAGGGGGAC	6319
Sbjct	5954	.....	6013
Query	6320	ATGGCAACCGGGATAACCTATGCATCATACGGGTACTTCTGCCAAATGCCTCAACCAAAG	6379
Sbjct	6014	.....	6073
Query	6380	CTCAGAGCTGCTATGGTAGAATACTCATACATATCTTAGATGAATACCATTTGTGCCACT	6439
Sbjct	6074	.....	6133
Query	6440	CCTGAACAACTGGCAATTATCGGGAAGATCCACAGATTTTCAGAGAGTATAAGGGTTGTC	6499
Sbjct	6134	.....	6193
Query	6500	GCCATGACTGCCACGCCAGCGGGTCGGTGACCACAACAGGTCAAAGCACCCAATAGAG	6559
Sbjct	6194	.....	6253

Query	6560	GAATTCATAGCCCCCGAGGTAATGAAAGGGGAGGATCTTGGTAGTCAGTTCCTTGATATA	6619
Sbjct	6254	.....	6313
Query	6620	GCAGGGTTAAAAATACCAGTGGATGAGATGAAAGGCAATATGTTGGTTTTTGTACCAACG	6679
Sbjct	6314	.....	6373
Query	6680	AGAAACATGGCAGTAGAGGTAGCAAAGAAGCTAAAAGCTAAGGGCTATAACTCTGGATAC	6739
Sbjct	6374	.....	6433
Query	6740	TATTACAGTGGAGAGGATCCAGCCAATCTGAGAGTTGTGACATCACAATCCCCCTATGTA	6799
Sbjct	6434	.....	6493
Query	6800	ATCGTGGCTACAAATGCTATTGAATCAGGAGTGACACTACCAGATTTGGACACGGTTATA	6859
Sbjct	6494	.....	6553
Query	6860	GACACGGGGTTGAAATGTGAAAAGAGGGTGAGGGTATCATCAAAGATACCCCTTCATCGTA	6919
Sbjct	6554	.....	6613
Query	6920	ACAGGCCTTAAGAGGATGGCCGTGACTGTGGGTGAGCAGGCGCAGCGTAGGGGCAGAGTA	6979
Sbjct	6614	.....	6673
Query	6980	GGTAGAGTGAAACCCGGGAGGTATTATAGGAGCCAGGAAACAGCAACAGGGTCAAAGGAC	7039
Sbjct	6674	.....	6733
Query	7040	TACCACTATGACCTCTTGCAGGCACAAAGATACGGGATTGAGGATGGAATCAACGTGACG	7099
Sbjct	6734	.T.....	6793
Query	7100	AAATCCTTTAGGGAGATGAATTACGATTGGAGCCTATACGAGGAGGACAGCCTACTAATA	7159
Sbjct	6794	.....	6853
Query	7160	ACCCAGCTGGAAATACTAAATAATCTACTCATCTCAGAAGACTTGCCAGCCGCTGTTAAG	7219
Sbjct	6854	.....	6913
Query	7220	AACATAATGGCCAGGACTGATCACCAGAGCCAATCCAACCTGCATACAACAGCTATGAA	7279
Sbjct	6914	.....	6973
Query	7280	GTCCAGGTCCCGGTCTATTCCCAAAAATAAGGAATGGAGAAGTCACAGACACCTACGAA	7339
Sbjct	6974	.....G.....	7033
Query	7340	AATTACTCGTTTCTAAATGCCAGAAAGTTAGGGGAGGATGTGCCCGTGTATATCTACGCT	7399
Sbjct	7034	.....	7093
Query	7400	ACTGAAGATGAGGATCTGGCAGTTGACCTCTTAGGGCTAGACTGGCCTGATCCTGGGAAC	7459
Sbjct	7094	.....	7153
Query	7460	CAGCAGGTAGTGGAGACTGGTAAAGCACTGAAGCAAGTGACCGGGTTGTCCTCGGCTGAA	7519
Sbjct	7154	.....	7213
Query	7520	AATGCCCTACTAGTGGCTTTATTTGGGTATGTGGGTACCAGGCTCTCTCAAAGAGGCAT	7579
Sbjct	7214	.....	7273
Query	7580	GTCCCAATGATAACAGACATATATACCATCGAGGACCAGAGACTAGAAGACACCACCAC	7639
Sbjct	7274	.....	7333
Query	7640	CTCCAGTATGCACCCAACGCCATAAAAACCGATGGGACAGAGACTGAACTGAAAGAAGT	7699
Sbjct	7334	.....	7393
Query	7700	GCGTCGGGTGACGTGGAAAAAATCATGGGAGCCATTTTCAGATTATGCAGCTGGGGGACTG	7759
Sbjct	7394	.....	7453
Query	7760	GAGTTTGTAAATCCCAAGCAGAAAAGATAAAAACAGCTCCTTTGTTTAAAGAAAACGCA	7819
Sbjct	7454	.....	7513

Query	7820	GAAGCCGCAAAAGGGTATGTCCAAAATTCATTGACTCATTAATTGAAAATAAAGAAGAA	7879
Sbjct	7514	.....	7573
Query	7880	ATAATCAGATATGGTTTGTGGGGAACACACACAGCACTATACAAAAGCATAGCTGCAAGA	7939
Sbjct	7574	.....	7633
Query	7940	CTGGGGCATGAAACAGCGTTTGCCACACTAGTGTTAAAGTGGCTAGCTTTTGGAGGGGAA	7999
Sbjct	7634	.....	7693
Query	8000	TCAGTGTGACACCACGTCAAGCAGGCGGCAGTTGATTTAGTGGTCTATTATGTGATGAAT	8059
Sbjct	7694	.....	7753
Query	8060	AAGCCTTCCTTCCCAGGTGACTCCGAGACACAGCAAGAAGGGAGGCGATTTCGTCGCAAGC	8119
Sbjct	7754	.....	7813
Query	8120	CTGTTTCATCTCCGCACTGGCAACCTACACATACAAAACCTTGAATTACCACAATCTCTCT	8179
Sbjct	7814	.....	7873
Query	8180	AAAGTGGTGGAAAC-AGCCCTGGCTTACCTCCCCTATGCTACCAGCGCATTAAAAATGTTC	8238
Sbjct	7874	.....C	7933
Query	8239	ACCCCAACGCGGCTGGAGAGCGTGGTGATACTGAGCACCACGATATATAAAACATACCTC	8298
Sbjct	7934	.....	7993
Query	8299	TCTATAAGGAAGGGGAAGAGTGATGGATTGCTGGGTACGGGGATAAGTGCAGCCATGGAA	8358
Sbjct	7994	.....	8053
Query	8359	ATCCTGTCACAAAACCCAGTATCGGTAGGTATATCTGTGATGTTGGGGGTAGGGGCAATC	8418
Sbjct	8054	.....	8113
Query	8419	GCTGCGCACACGCTATTGAGTCCAGTGAACAGAAAAGGACCCTACTTATGAAGGTGTTT	8478
Sbjct	8114	.....	8173
Query	8479	GTAAAGAACTTCTTGGATCAGGCTGCAACAGATGAGCTGGTAAAAGAAAACCCAGAAAAA	8538
Sbjct	8174	.....	8233
Query	8539	ATTATAATGGCCTTATTTGAAGCAGTCCAGACAATTGGTAACCCCTGAGACTAATATAC	8598
Sbjct	8234	.....	8293
Query	8599	CACCTGTATGGGGTTTACTACAAAGGTTGGGAGGCCAAGGAACTATCTGAGAGGACAGCA	8658
Sbjct	8294	.....	8353
Query	8659	GGCAGAACTTATTACATTGATAATGTTTGAAGCCTTCGAGTTATTAGGGATGGACTCA	8718
Sbjct	8354	.....	8413
Query	8719	CAAGGGAAAATAAGGAACCTGTCCGGAATTACATTTTGGATTTGATATACGGCCTACAC	8778
Sbjct	8414	.....	8473
Query	8779	AAGCAAATCAACAGAGGGCTGAAGAAAATGGTACTGGGGTGGGCCCTGCACCCTTTAGT	8838
Sbjct	8474	.....	8533
Query	8839	TGTGACTGGACCCCTAGTGACGAGAGGATCAGATTGCCAACAGACAACCTATTTGAGGGTA	8898
Sbjct	8534	.....	8593
Query	8899	GAAACCAGGTGCCCATGTGGCTATGAGATGAAAGCTTTCAAAAATGTAGGTGGCAAACCTT	8958
Sbjct	8594	.....	8653
Query	8959	ACCAAAGTGGAGGAGAGCGGGCCTTTCCTATGTAGAAACAGACCTGGTAGGGGACCAGTC	9018
Sbjct	8654	.....	8713
Query	9019	AACTACAGAGTCACCAAGTATTACGATGACAACCTCAGAGAGATAAAACCAGTAGCAAAG	9078
Sbjct	8714	.....	8773

Query	9079	TTGGAAGGACAGGTAGAGCACTACTACAAAGGGGTCACAGCAAAAATTGACTACAGTAAA	9138
Sbjct	8774	.....	8833
Query	9139	GGAAAAATGCTCTTGGCCACTGACAAGTGGGAGGTGGAACATGGTGTCTATAACCAGGTTA	9198
Sbjct	8834	.....	8893
Query	9199	GCTAAGAGATATACTGGGGTCGGGTTCAATGGTGCATACTTAGGTGACGAGCCCAATCAC	9258
Sbjct	8894	.....	8953
Query	9259	CGTGCTCTAGTGGAGAGGGACTGTGCAACTATAACCAAAAACACAGTACAGTTTCTAAAA	9318
Sbjct	8954	.....	9013
Query	9319	ATGAAGAAGGGGTGTGCGTTCACCTATGACCTGACCATCTCCAATCTGACCAGGCTCATC	9378
Sbjct	9014	.....	9073
Query	9379	GAAGTAGTACACAGGAACAATCTTGAAGAGAAGGAAATACCCACCGCTACGGTCACCACA	9438
Sbjct	9074	.....	9133
Query	9439	TGGCTAGCTTACACCTTCGTGAATGAAGACGTAGGGACTATAAAACCAGTACTAGGAGAG	9498
Sbjct	9134	.....	9193
Query	9499	AGAGTAATCCCCGACCCTGTAGTTGATATCAATTTACAACCAGAGGTGCAAGTGGACACG	9558
Sbjct	9194	.....	9253
Query	9559	TCAGAGGTTGGGATCACAATAATTGGAAGGGAAACCCTGATGACAACGGGAGTGACACCT	9618
Sbjct	9254	.....	9313
Query	9619	GTCTTGGA AAAAGTAGAGCCTGACGCCAGCGACAACCAAAACTCGGTGAAGATCGGGTTG	9678
Sbjct	9314	.....	9373
Query	9679	GATGAGGGTAATTACCCAGGGCCTGGAATACAGACACATACACTAACAGAAGAAATACAC	9738
Sbjct	9374	.....	9433
Query	9739	AACAGGGATGCGAGGCCCTTCATCATGATCCTGGGCTCAAGGAATCCATATCAAATAGG	9798
Sbjct	9434	.....	9493
Query	9799	GCAAAGACTGCTAGAAATATAAATCTGTACACAGGAAATGACCCAGGGAAATACGAGAC	9858
Sbjct	9494	.....	9553
Query	9859	TTGATGGCTGCAGGGCGCATGTTAGTAGTAGCACTGAGGGATGTCGACCCTGAGCTGTCT	9918
Sbjct	9554	.....	9613
Query	9919	GAAATGGTCGATTTCAAGGGGACTTTTTTAGATAGGGAGGCCCTGGAGGCTCTAAGTCTC	9978
Sbjct	9614	.....	9673
Query	9979	GGGCAACCTAAACCGAAGCAGGTTACCAAGGAAGCTGTTAGGAATTTGATAGAACAGAAA	10038
Sbjct	9674	.....	9733
Query	10039	AAAGATGTGGAGATCCCTAACTGGTTTGCATCAGATGACCCAGTATTTCTGGAAGTGGCC	10098
Sbjct	9734	.....	9793
Query	10099	TTAAAAAATGATAAGTACTACTTAGTAGGAGATGTTGGAGAGCTAAAAGATCAAGCTAAA	10158
Sbjct	9794	.....G	9853
Query	10159	GCACCTGGGGCCACGGATCAGACAAGAATTATAAAGGAGGTAGGCTCAAGGACGTATGCC	10218
Sbjct	9854	.....	9913
Query	10219	ATGAAGCTATCTAGCTGGTTCC-CAAGGCATCAAACAAACAGATGAGTTTAACTCCACTG	10277
Sbjct	9914	.....T.C	9973
Query	10278	TTTGAGGAATTGTTGCTACGGTGCCACCTGCAACTAAGAGCAATAAGGGGCACATGGCA	10337
Sbjct	9974	.....	10033

Query	10338	TCAGCTTACCAATTGGCACAGGGTAACTGGGAGCCCCTCGGTTGCGGGGTGCACCTAGGT	10397
Sbjct	10034	.....	10093
Query	10398	ACAATACCAGCCAGAAGGGTGAAGATACACCCATATGAAGCTTACCTGAAGTTGAAAGAT	10457
Sbjct	10094	.....	10153
Query	10458	TTCATagaagaagaagagaagaaACCTAGGGTTAAGGATACAGTAATAAGAGAGCACAAC	10517
Sbjct	10154	.....	10213
Query	10518	AAATGGATACTTaaaaaaaTAAGGTTTCAAGGAAACCTCAACACCAAGAAAATGCTCAAC	10577
Sbjct	10214	.....	10273
Query	10578	CCAGGGAAACTATCTGAACAGTTGGACAGGGAGGGGCGCAAGAGGAACATCTACAACCAC	10637
Sbjct	10274	..T.....	10333
Query	10638	CAGATTGGTACTATAATGTCAAGTGCAGGCATAAGGCTGGAGAAATTGCCAATAGTGAGG	10697
Sbjct	10334	.....	10393
Query	10698	GCCCAAACCGACACCAAAACCTTTCATGAGGCAATAAGAGATAAGATAGACAAGAGTGAA	10757
Sbjct	10394	.....	10453
Query	10758	AACCGGCAAAATCCAGAATTGCACAACAAATTGTTGGAGATTTCCACACGATAGCCCAA	10817
Sbjct	10454	.....	10513
Query	10818	CCCACCCTGAAACACACCTACGGTGAGGTGACGTGGGAGCAACTTGAGGCGGGGTAAAT	10877
Sbjct	10514	.....A.....	10573
Query	10878	AGAAAGGGGGCAGCAGGCTTCCTGGAGAAGAAGAACATCGGAGAAGTATTGGATTGAGAA	10937
Sbjct	10574	.....	10633
Query	10938	AAGCACCTGGTAGAACAATTGGTCAGGGATCTGAAGGCCGGGAGAAAGATAAAATATTAT	10997
Sbjct	10634	.....	10693
Query	10998	GAAACTGCAATACCAAAAAATGAGAAGAGAGATGTCAGTGATGACTGGCAGGCAGGGGAC	11057
Sbjct	10694	.....	10753
Query	11058	CTGGTGGTTGAGAAGAGGCCAAGAGTTATCCAATACCCTGAAGCCAAGACAAGGCTAGCC	11117
Sbjct	10754	.....	10813
Query	11118	ATCACTAAGGTCATGTATAACTGGGTGAAACAGCAGCCCCTTGTGATTCCAGGATATGAA	11177
Sbjct	10814	.....	10873
Query	11178	GGAAAGACCCCCTTGTTCACATCTTTGATAAAGTGAGAAAGGAATGGGACTCGTTCAAT	11237
Sbjct	10874	.....	10933
Query	11238	GAGCCAGTGGCCGTAAGTTTTGACACCAAAGCCTGGGACACTCAAGTGACTAGTAAGGAT	11297
Sbjct	10934	.....	10993
Query	11298	CTGCAACTTATTGGAGAAATCCAGAAATATTACTATAAGAAGGAGTGGCACAAGTTCATT	11357
Sbjct	10994	.....	11053
Query	11358	GACACCATCACCGACCACATGACAGAAGTACCAGTTATAACAGCAGATGGTGAAGTATAT	11417
Sbjct	11054	.....	11113
Query	11418	ATAAGAAATGGGCAGAGAGGGAGCGGCCAGCCAGACACAAGTGCTGGCAACAGCATGTTA	11477
Sbjct	11114	.....	11173
Query	11478	AATGTCCTGACAATGATGTACGGCTTCTGCGAAAGCACAGGGGTACCGTACAAGAGTTTC	11537
Sbjct	11174	.....C.....	11233
Query	11538	AACAGGGTGGCAAGGATCCACGTCTGTGGGGATGATGGCTTCTTAATAACTGAAAAAGGG	11597
Sbjct	11234	.....	11293

Query	11598	TTAGGGCT ² GAAATTTGCTAACAAAGGGATGCAGATTCTTCATGAAGCAGGCAAACCTCAG	11657
Sbjct	11294	.....	11353
Query	11658	AAGATAACGGAAGGGGAAAAGATGAAAGTTGCCTATAGATTTGAGGATATAGAGTTCTGT	11717
Sbjct	11354	.....	11413
Query	11718	TCTCATACCCCAGTCCCTGTTAGGTGGTCCGACAACACCAGTAGTCACATGGCCGGGAGA	11777
Sbjct	11414	.....	11473
Query	11778	GACACCGCTGTGATACTATCAAAGATGGCAACAAGATTGGATTCAAGTGGAGAGAGGGGT	11837
Sbjct	11474	.....	11533
Query	11838	ACCACAGCATATGAAAAAGCGGTAGCCTTCAGTTTCTTGCTGATGTATTCTTGGAACCCG	11897
Sbjct	11534	.....T	11593
Query	11898	CTTGTTAGGAGGATTTGCCTGTTGGTCCTTTCGCAACAGCCAGAGACAGACCCATCAAAA	11957
Sbjct	11594	.....	11653
Query	11958	CATGCCACTTATTATTACAAAGGTGATCCAATAGGGGCCATAAAGATGTAATAGGTCGG	12017
Sbjct	11654	.....	11713
Query	12018	AATCTAAGTGAAGTGAAGAGAACAGGCTTTGAGAAATTGGCAAATCTAAACCTAAGCCTG	12077
Sbjct	11714	.....	11773
Query	12078	TCCACGTTGGGGGTCTGGACTAAGCACACAAGCAAAAGAATAATTAGGACTGTGTTGCC	12137
Sbjct	11774	.....A	11833
Query	12138	ATTGGGAAAGAAGAGGGCAACTGGCTAGTTAA-GCCCGACAGGCTGATATCCAGCAAAAC	12196
Sbjct	11834	.....C	11892
Query	12197	TGGCCACTTATACATACCTGATAAAGGCTTTACATTACAAGGAAAGCATTATGAGCAACT	12256
Sbjct	11893	.....	11952
Query	12257	GCAGCTAAGAACAGAGACAAACCCGGTCATGGGG-TTGGGACTGAGAGATACAAGTTAGG	12315
Sbjct	11953	.....G	12012
Query	12316	TCCCATAGTCAATCTGCTGCTGAGAAGGTTGAAAATTCTGCTCATGACGGCCGTCGGCGT	12375
Sbjct	12013	.....	12072
Query	12376	CAGCAGCTGAGACAAAATGTATATATTGTAAATAAATTAATCCATGTACATAGTGTATAT	12435
Sbjct	12073	.....	12132
Query	12436	AAATATAGTTGGGACCGTCCACCTCAAGAAGACGACACGCCCAACACGCACAGCTAAACA	12495
Sbjct	12133	.....	12192
Query	12496	GTAGTCAAGATTATCTACCTCAAGATAACACTACATTTAATGCACACAGCACTTTAGCTG	12555
Sbjct	12193	.....	12252
Query	12556	TATGAGGATACGCCCCGACGTCTATAGTTGGACTAGGGAAGACCTCTAACAGCCCCC	12611
Sbjct	12253	.....	12308

Score = 7494 bits (4058), Expect = 0.0
 Identities = 4089/4104 (99%), Gaps = 2/4104 (0%)
 Strand=Plus/Plus

Query	929	TCAGACACGAAAGAAGAGGGAGCAACAAAAAGAAAACACAGAAACCCGACAGACTAGAA	988
Sbjct	890	.....	949
Query	989	AGGGGGAAAATGAAAATAGTGCCCAAAGAATCTGAAAAAGACAGCAAAACTAAACCTCCG	1048
Sbjct	950	.....	1009

Query	1049	GATGCTACAATAGTGGTGGGAAGGAGTCAAATACCAGGTGAGGAAGAAGGGAAAAACCAAG	1108
Sbjct	1010	.....	1069
Query	1109	AGTAAAAACACTCAGGACGGCTTGTACCATAACAAAAACAAACCTCAGGAATCACGCAAG	1168
Sbjct	1070	.....	1129
Query	1169	AAACTGGAAAAAGCATTGTTGGCGTGGGCAATAATAGCTATAGTTTTGTTTCAAGTTACA	1228
Sbjct	1130	.....	1189
Query	1229	ATGGGAGAAAACATAACACAGTGGAACCTACAAGATAATGGGACGGAAGGGATACAACGG	1288
Sbjct	1190	.....	1249
Query	1289	GCAATGTTCCAAAGGGGTGTGAATAGAAGTTTACATGGAATCTGGCCAGAGAAAATCTGT	1348
Sbjct	1250	.....	1309
Query	1349	ACTGGCGTCCCTTCCCATCTAGCCACCGATATAGAACTAAAAACAATTTCATGGTATGATG	1408
Sbjct	1310	.....T.....	1369
Query	1409	GATGCAAGTGAGAAGACCAACTACACGTGTTGCAGACTTCAACGCCATGAGTGGAACAAG	1468
Sbjct	1370	.....	1429
Query	1469	CATGGTTGGTGCAACTGGTACAATATTGAACCTGGATTCTAGTCATGAATAGAACCCAA	1528
Sbjct	1430	.....	1489
Query	1529	GCCAATCTCACTGAGGGACAACCACCAAGGGAGTGCGCAGTCACTTGTAGGTATGATAGG	1588
Sbjct	1490	.....	1549
Query	1589	GCTAGTGACTTAAACGTGGTAACACAAGCTAGAGATAGCCCCACACCCTTAACAGGTTGC	1648
Sbjct	1550	.....	1609
Query	1649	AAGAAAGGAAAGAACTTCTCCTTTGCAGGCATATTGATGCGGGGCCCTGCAACTTTGAA	1708
Sbjct	1610	.....	1669
Query	1709	ATAGCTGCAAGTGATGTATTATTCAAAGAACATGAACGCATTAGTATGTTCCAGGATACT	1768
Sbjct	1670	.....	1729
Query	1769	ACTCTTTACCTTGTGACGGGTTGACCAACTCCTTAGAAGGTGCCAGACAAGGAACCGCT	1828
Sbjct	1730	.....	1789
Query	1829	AAACTGACAACCTGGTTAGGCAAGCAGCTCGGGATACTAGGAAAAAAGTTGGAAAACAAG	1888
Sbjct	1790	.....	1849
Query	1889	AGTAAGACGTGGTTTGGAGCATACGCTGCTTCCCCCTTACTGTGATGTCGATCGCAAAATT	1948
Sbjct	1850	.....	1909
Query	1949	GGCTACATATGGTATACAAAAAATTGCACCCCTGCCTGCTTACCCAAGAACACAAAAATT	2008
Sbjct	1910	.....	1969
Query	2009	GTCGGCCCTGGGAAATTTGACACCAATGCAGAGGACGGCA-GATATTACATGAGATGGGG	2067
Sbjct	1970	.....A.....	2029
Query	2068	GGTCACTTGTTCGGAGGTACTACTACTTTCTTTAGTGGTGCTGTCCGACTTCGCACCGGAA	2127
Sbjct	2030	.....	2089
Query	2128	ACAGCTAGTGTAATGTACCTAATCCTACATTTTTCCATCCACAAAGTCACGTTGATGTA	2187
Sbjct	2090	.....	2149
Query	2188	ATGGATTGTGATAAGACCCAGTTGAACCTCACAGTGGAGCTGACAACAGCTGAAGTAATA	2247
Sbjct	2150	.....T.....	2209
Query	2248	CCAGGGTCGGTCTGGAATCTAGGCAAATATGTATGTATAAGACCAAATTGGTGGCCTTAT	2307
Sbjct	2210	..T..A..A.....C.....GG.....	2269

Query	2308	GAGACAACTGTAGTGTGGCATTGGAAGAGGTGAGCCAGGTGGTGAAGTTAGTGTGAGG	2367
Sbjct	2270	.....G.....	2329
Query	2368	GCACTCAGAGATTTAACACGCATTTGGAACGCTGCAACAACACTACTGCTTTTTTAGTATGC	2427
Sbjct	2330	.....G.....C...A.....	2389
Query	2428	CTTGTTAAGATAGTCAGGGGCCAGATGGTACAGGGCATTCTGTGGCTACTATTGATAACA	2487
Sbjct	2390	.....C.....	2449
Query	2488	GGGGTACAAGGGCACTTGGATTGCAAACCTGAATTCTCGTATGCCATAGCAAAGGACGAA	2547
Sbjct	2450	.....	2509
Query	2548	AGAATTGGTCAACTGGGGGCTGAAGGCCTTACCACCACTTGAAGGAATACTCACCTGGA	2607
Sbjct	2510	.....	2569
Query	2608	ATGAAGCTGGAAGACACAATGGTCATTGCTTGGTGCGAAGATGGGAAGTTAATGTACCTC	2667
Sbjct	2570	.....	2629
Query	2668	CAAAGATGCACGAGAGAAACCAGATATCTCGCAATCTTGCATACAAGAGCCTTGCCGACC	2727
Sbjct	2630	.....	2689
Query	2728	AGTGTGGTATTCAAAAACTCTTTGATGGGCGAAAGCAAGAGGATGTAGTCGAAATGAAC	2787
Sbjct	2690	.....	2749
Query	2788	GACAACTTTGAATTTGGACTCTGCCCATGTGATGCCAAACCCATAGTAAGAGGGAAGTTC	2847
Sbjct	2750	.....	2809
Query	2848	AATACAACGCTGCTGAACGGACCGGCCTTCCAGATGGTATGCCCCATAGGATGGACAGGG	2907
Sbjct	2810	.....	2869
Query	2908	ACTGTAAGCTGTACGTCATTCAATATGGACACCTTAGCCACAACGTGGTACGGACATAT	2967
Sbjct	2870	.....	2929
Query	2968	AGAAGGTCTAAACCATTCCCTCATAGGCAAGGCTGTATCACCCAAAAGAATCTGGGGGAG	3027
Sbjct	2930	.....	2989
Query	3028	GATCTCCATAACTGCATCCTTGGAGGAAATTGGACTTGTGTGCCTGGAGACCAACTACTA	3087
Sbjct	2990	.....	3049
Query	3088	TACAAAGGGGGCTCTATTGAATCTTGCAAGTGGTGTGGCTATCAATTTAAAGAGAGTGAG	3147
Sbjct	3050	.....	3109
Query	3148	GGACTACCACACTACCCCATTTGGCAAGTGTAATTTGGAGAACGAGACTGGTTACAGGCTA	3207
Sbjct	3110	.....	3169
Query	3208	GTAGACAGTACCTCTTGCAATAGAGAAGGTGTGGCCATAGTACCACAAGGGACATTAAAG	3267
Sbjct	3170	.....	3229
Query	3268	TGCAAGATAGGAAAAACAACGTACAGGTATAGCTATGGATACCAAACTCGGACCTATG	3327
Sbjct	3230	.....	3289
Query	3328	CCTTGCAGACCATATGAAATCATATCAAGTGAGGGGCTGTAGAAAAGACAGCGTGTACT	3387
Sbjct	3290	.....	3349
Query	3388	TTCAACTACACTAAGACATTAAAAAATAAGTATTTTGAGCCCAGAGACAGCTACTTTCAG	3447
Sbjct	3350	.....	3409
Query	3448	CAATACATGCTAAAAGGAGAGTATCAATACTGGTTTGACCTGGAGGTGACTGACCATCAC	3507
Sbjct	3410	.....	3469
Query	3508	CGGGATTACTTCGCTGAGTCCATATTAGTGGTGGTAGTAGCCCTCTGGGTGGCAGATAT	3567
Sbjct	3470	.....	3529

Query	3568	GTACTTTGGTTACTGGTTACATACATGGTCTTATCAGAACAGAAGGCCTTAGGGATTTCAG	3627
Sbjct	3530	.....	3589
Query	3628	TATGGATCAGGGGAAGTGGTGATGATGGGCAACTTGCTAACCCATAACAATATTGAAGTG	3687
Sbjct	3590	.....	3649
Query	3688	GTGACATACTTCTTGCTGCTGTACCTACTGCTGAGGGAGGAGAGCGTAAAGAAGTGGGTC	3747
Sbjct	3650	.....	3709
Query	3748	TTACTCTTATACCACATCTTAGTGGTACACCCAATCAAATCTGTAATTGTGATCCTACTG	3807
Sbjct	3710	.....	3769
Query	3808	ATGATTGGGGATGTGGTAAAGGCCGATTCAGGGGGCCAAGAGTACTTGGGGAAAATAGAC	3867
Sbjct	3770	.....	3829
Query	3868	CTCTGTTTTACAACAGTAGTACTAATCGTCATAGGTTTAATCATAGCCAGGCGTGACCCA	3927
Sbjct	3830	.....	3889
Query	3928	ACTATAGTGCCACTGGTAACAATAATGGCAGCACTGAGGGTCACTGAACTGACCCACCAG	3987
Sbjct	3890	.....	3949
Query	3988	CCTGGAGTTGACATCGCTGTGGCGGTCATGACTATAACCCCTACTGATGGTTAGCTATGTG	4047
Sbjct	3950	.....	4009
Query	4048	ACAGATTATTTTAGATATAAAAAATGGTTACAGTGCATTCTCAGCCTGG-ATCTGGGGTG	4106
Sbjct	4010	.....T.....	4069
Query	4107	TTCTTGATAAGAAGCCTAATATACCTAGGTAGAATCGAGATGCCAGAGGTAACATATCCCA	4166
Sbjct	4070	.....	4129
Query	4167	AACTGGAGACCACTAACTTTAATACTATTATATTTGATCTCAACAACAATTGTAACGAGG	4226
Sbjct	4130	.....	4189
Query	4227	TGGAAGGTTGACGTGGCTGGCCTATTGTTGCAATGTGTGCCTATCTTATTGCTGGTCACA	4286
Sbjct	4190	.....	4249
Query	4287	ACCTTGTGGGCCGACTTCTTAACCCTAATACTGATCCTGCCTACCTATGAATTGGTTAAA	4346
Sbjct	4250	.....	4309
Query	4347	TTATACTATCTGAAAACCTGTTAGGACTGATATAGAAAGAAGTTGGCTAGGGGGGATAGAC	4406
Sbjct	4310	.....	4369
Query	4407	TATACAAGAGTTGACTCCATCTACGACGTTGATGAGAGTGGAGAGGGCGTATATCTTTTT	4466
Sbjct	4370	.....	4429
Query	4467	CCATCAAGGCAGAAAGCACAGGGGAATTTTTCTATACCTTGCCCTTATCAAAGCAACA	4526
Sbjct	4430	.....	4489
Query	4527	CTGATAAGTTGCGTCAGCAGTAAATGGCAGCTAATATACATGAGTTACTTAACTTTGGAC	4586
Sbjct	4490	.....	4549
Query	4587	TTTATGTACTACATGCACAGGAAAGTTATAGAAGAGATCTCAGGAGGTACCAACATAATA	4646
Sbjct	4550	.....	4609
Query	4647	TCCAGGTTAGTGGCAGCACTCATAGAGCTGAACTGGTCCATGGAAGAAGAGGAGAGCAAA	4706
Sbjct	4610	.....	4669
Query	4707	GGCTTAAAGAAGTTTTATCTATTGTCTGGAAGGTTGAGAAACCTAATAATAAAACATAAG	4766
Sbjct	4670	.....	4729
Query	4767	GTAAGGAATGAGACCGTGGCTTCTTGGTACGGGGAGGAGGAAGTCTACGGTATGCCAAAG	4826
Sbjct	4730	.....	4789

Query	4827	ATCATGACTATAATCAAGGCCAGTACACTGAGTAAGAGCAGGCACTGCATAATATGCACT	4886
Sbjct	4790	.....	4849
Query	4887	GTATGTGAGGGCCGAGAGTGGAAAGGTGGCACCTGCCCCAAATGTGGACGCCATGGGAAG	4946
Sbjct	4850	.....	4909
Query	4947	CCGATAACGTGTGGGATGTCGCTAGCAGATTTCTGAAGAAAGACACTATAAAAGAATCTTT	5006
Sbjct	4910	.....	4969
Query	5007	ATAAGGGAAGGCAACTTTGAGGGT	5030
Sbjct	4970	.....	4993

Score = 1284 bits (695), Expect = 0.0
Identities = 695/695 (100%), Gaps = 0/695 (0%)
Strand=Plus/Plus

Query	1	GTATACGAGAATTAGAAAAGGCACTCGTATACGTATTGGGCAATTAAAAATAATAATTAG	60
Sbjct	1	.....	60
Query	61	GCCTAGGGAACAAATCCCTCTCAGCGAAGGCCGAAAAGAGGCTAGCCATGCCCTTAGTAG	120
Sbjct	61	.....	120
Query	121	GACTAGCATAATGAGGGGGGTAGCAACAGTGGTGAAGTTCGTTGGATGGCTTAAGCCCTGA	180
Sbjct	121	.....	180
Query	181	GTACAGGGTAGTCGTCAGTGGTTCGACGCCTTGAATAAAGGTCTCGAGATGCCACGTGG	240
Sbjct	181	.....	240
Query	241	ACGAGGGCATGCCCAAAGCACATCTTAACCTGAGCGGGGGTCGCCCAGGTAAAAGCAGTT	300
Sbjct	241	.....	300
Query	301	TTAACCGACTGTTACGAATACAGCCTGATAGGGTGCTGCAGAGGCCCACTGTATTGCTAC	360
Sbjct	301	.....	360
Query	361	TAAAAATCTCTGCTGTACATGGCACATGGAGTTGATCACAAATGAACTTTTATACAAAAC	420
Sbjct	361	.....	420
Query	421	ATACAAACAAAAACCCGTCGGGGTGGAGGAACCTGTTTATGATCAGGCAGGTGATCCCTT	480
Sbjct	421	.....	480
Query	481	ATTTGGTGAAAGGGGAGCAGTCCACCCTCAATCGACGCTAAAGCTCCACACAAGAGAGG	540
Sbjct	481	.....	540
Query	541	GGAACGCGATGTTCCAACCAACTTGGCATCCTTACCAAAAAGAGGTGACTGCAGGTCGGG	600
Sbjct	541	.....	600
Query	601	TAATAGCAGAGGACCTGTGAGCGGGATCTACCTGAAGCCAGGGCCACTATTTTACCAGGA	660
Sbjct	601	.....	660
Query	661	CTATAAAGGTCCCGTCTATCACAGGGCCCCGCTGG	695
Sbjct	661	.....	695

> [gi|71727706|gb|DQ088995.1|](#) **D** Bovine viral diarrhea virus 1 strain Singer_Arg, co
Length=12236

Score = 1.182e+04 bits (6401), Expect = 0.0
Identities = 6978/7238 (96%), Gaps = 13/7238 (0%)
Strand=Plus/Minus

Query	5301	CCTTTTCAGGCAGGAATACAATGGCTTTGTACAATATACCGCTAGGGGGCAACTATTTCTG	5360
Sbjct	7248	.....A.....T..C..G..	7189